

### Report of Examination Routing Slip

File No. G.2-28893 / ~~MA~~ G:\Marie\Reports\ Pol 28893

Letter No./Fee 2 / \$20

	<u>Initial</u>	<u>Date</u>
Author	<u>mf</u>	<u>1-5-98</u>
✓ Hydrogeologist	<u>se</u>	<u>3/17/98</u>
Reviewers	<u>VC</u>	<u>2/12/98</u>
	<u>⊕</u>	<u>2/19/98</u>
Proofed	<u>mf</u>	<u>5-6-98</u>
Signed by Author	<u>mf</u>	<u>6-3-98</u>
Section Supervisors Approval and Sig.	_____	_____
Tracking	_____	_____

Mail Copies of Report To: (Permit Writer list - include addresses)

Enclosure: (list)

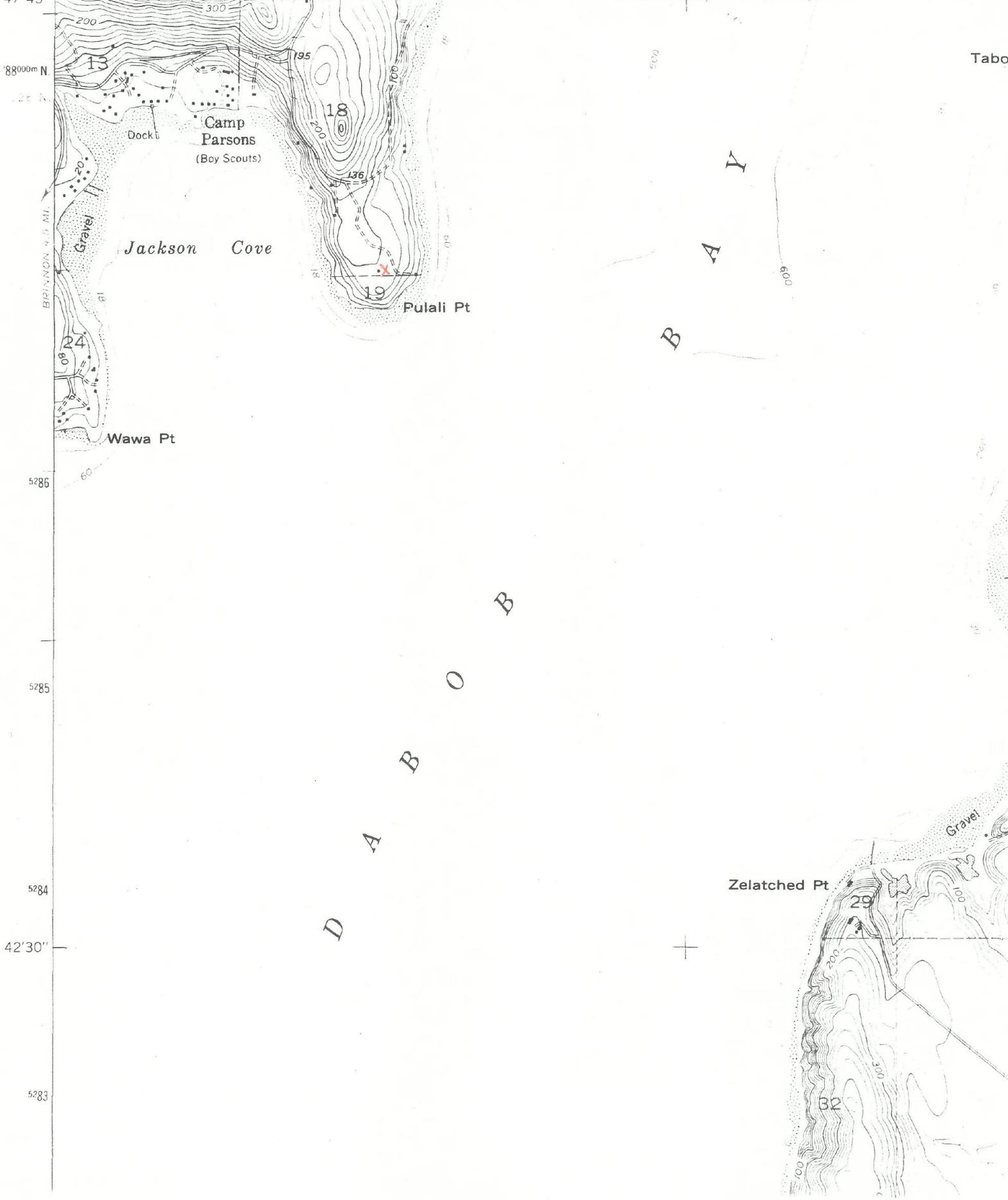
Mailed Originals and cc's TH 7/10/98

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SW  
1/4

122°52'30" 47°45' R 2 W R 1 W BEES N (END OF ROAD) 0 9 A 512000m E 50' 513'

14791  
QUILC



Tabo

88000m N  
25' N  
BRINNON 4.3 MI.

5286  
5285  
5284  
42'30"  
5283

Zelatched Pt

Date: 3/16/98  
To: Marie Peter  
From: Tom Culhane  
RE: Review of Pulali Point water right application file G2-28893

Upon your request, I have reviewed the above referenced application for water supply for 10 homes. The subject well is 183 feet deep, and produced a static water level 40 feet BMP on June 15, 1990. The well is completed in basalt for the lower 175 feet, and is cased with steel for the upper 20 feet. The lower 183 feet of the well is cased with PVC, the lowest 38 feet of which has been perforated with 3/8-inch holes.

Based on information in the file, the subject well appears to be located about 500 feet from the Puget Sound, with a wellhead elevation about 90 feet above MSL. With a total well depth of 183 feet, this indicates the well is completed about 93 feet below sealevel. As such, the well is susceptible to seawater intrusion, dependent on fractures in the bedrock, and the communication between these and the Puget Sound

The file contains laboratory analyses for water samples collected 11/7/90 and 2/23/94. The former was for water collected from Pulali Point, while the latter does not indicate the source. The 11/7/90 sample does not include an analysis for chloride, while the 2/23/94 sample contained less than 20 mg/l of chloride. Based on similarities in analyses for other constituents (sodium, turbidity, etc.), it appears likely that the 2/23/94 sample was collected from the Pulali Point well. This suggests that the subject well produced water with a chloride concentration less than 20 mg/l.

Dion and Sumioka (USGS WSB 32, 1984) indicate that well 26/1W-18M1, less than one half mile away, produced water with chloride concentrations of 6.9 mg/l on 8/14/68 and 9.6 mg/l on 6/21/78. In a "Preliminary Assessment of Seawater Intrusion in Coastal Water Wells in Eastern Clallam and Eastern Jefferson Counties" (CH2M Hill, 1993), well 26/2W-13H (AAB-797), approximately three quarters of a mile away, produced 1,700 mg/l on 6/16/93. A review of Walters (USGS WSB 32, 1971) and our Ground Water Data Base yielded no additional chloride information for wells within 1 mile.

A 10-hour pump test was performed 11/6/91, with the rate gradually decreasing from 33 gpm to 29 gpm. The SWL was 22.9 feet BMP at the start of pumping, and 146.5 feet BMP at the conclusion. The well achieved stabilization (defined as less than 0.1 feet of drawdown per hour) about seven hours into the test. A worksheet contained in the file indicates that the pump intake is set 155 feet BGS, and this suggests only 8.5 feet of available head were available at the cessation of pumping. Based on a pump rate of 30 gpm and an assumed pumping requirement of 8,000 gpd (10 homes at 800 gpd), the well could produce the required amount of water during 4.4 hours of pumping.

Based on previous measurements, the well's static water level is significantly above sealevel (about 50 to 61 feet). During the test, however, the well's pumping water level

dropped considerable below sealevel (about 56.5 feet). This again suggests there is a real possibility that this well might experience seawater intrusion.

### **Conclusions**

Based on the subject well's proximity to the coast and its completion below sealevel, it is susceptible to seawater intrusion. Although neighboring well 26/2W-13H produced water with 1,700 mg/l of chloride on 6/16/93, that well is three-quarters of a mile distant and cross-gradient to the subject well, thus pumping of one should not effect the other.

The existing chloride information on the subject well is not entirely reliable, but does suggest that seawater intrusion may not be a problem at this time. A field visit should be made to sample the well water for chloride analysis, possibly using a HACH kit. Even if the water does currently have low chloride concentrations, this could change over time; thus monitoring per our current chloride proviso should be a requirement of any permit issued. Along those lines, it would also have been useful (though not absolutely necessary), to determine whether the subject well is tidally influenced. If the well's static water level varies in response to changing tides, this would indicate that the well is rather susceptible to seawater intrusion.

Sufficient water was produced during the 10-hour pump test to supply approximately 22 homes, based on a requirement of 800 gpd per home. The test was not entirely conclusive, however, as the rate during the pumping test steadily decreased from 33 to 29 gpm, and the pumping water level at the conclusion approached that of the pump intake. Still, assuming a reasonable pump rate of 30 gpm, the well is capable of producing 8,000 gpd in 4.4 hours, and this suggests it is easily capable of producing water for 10 homes.

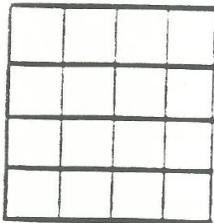
WATER RIGHT APPLICATION  
FIELD EXAMINATION CHECK LIST

62-28893  
APPLICATION NO. \_\_\_\_\_

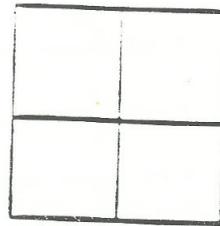
State / Pulali Point  
APPLICANT \_\_\_\_\_

POD LOCATION:

(SECTION)



(1/4, 1/4)



PROJECT STATUS:

Proposed

Existing and In Use

Partially Constructed

Expansion of Existing System

DESCRIPTION OF WATER DELIVERY SYSTEM: \_\_\_\_\_

Pump: (Type) \_\_\_\_\_ (H.P.) \_\_\_\_\_ (Capacity) \_\_\_\_\_

System Pressure: \_\_\_\_\_

PROPOSED USE(S):

Roger Mikelbust (206) 654-2220

Industrial

Municipal

Domestic

Irrigation

Stockwater

Fish Propagation

Beautification

Recreation

Wildlife Refuge

Power Generation

Other

on Osprey Rd. off Pulali Point Road

USE DETAILS:

\* Key to gate on back of hinge post (master lock - longest)  
well house key is under a big rock at base of guy wire of electric pole 10' from well house  
OK to turn breakers on for power

Crop Type \_\_\_\_\_ Use Season \_\_\_\_\_

Acreage: (Present) \_\_\_\_\_ (Planned) \_\_\_\_\_ (Feasible) \_\_\_\_\_

Number of Services \_\_\_\_\_ (Type) \_\_\_\_\_

Estimated Population of \_\_\_\_\_ for the year \_\_\_\_\_

COMMENTS: Pulali Pt Rd off Bee Mill Rd

12/30/97  
mp  
vc

primitive road led to gated (locked) access

mostly undeveloped <sup>wooded</sup> lots -- a few existing homes/cabins in area

road + well site estimated ~ 100' ft above MSL

(did not get to well because of gate)

forested / access to north light residential use

state shellfish lab nearby (at end of Bee Mill Rd)

accessed well house -- well <sup>doesn't</sup> <sup>functional</sup> access port (corroded pipe coming out of top)

obtained water sample and tested for Cl<sup>-</sup> with HACH kit 4/17/98 a.m.

Cl<sup>-</sup> estimated to be ~ 15 mg/L (- consistent w/ lab results of 20 mg)

observed <sup>old capped</sup> well next to lighthouse on bluff (within 10' of water) -- not in use / no tag  
R USB 26 report

4/16/98  
mp, JV

looks like  
1 home and  
1 trailer  
currently  
these lots

sample  
- high  
pH

OTHER USES FROM THIS SOURCE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OTHER WATER RIGHTS  APPURTENANT TO THIS LAND OR  FROM THIS STREAM:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROXIMITY TO EXISTING WELLS, SPRINGS, STREAMS, ETC.: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FLOW  MEASUREMENT OR  ESTIMATE \_\_\_\_\_ (CFS or GPM)

FAMILY FARM:  Yes  No

Date Waiver Sent to Applicant: \_\_\_\_\_  
Date Signed Waiver Received: \_\_\_\_\_

FISHERIES COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

WILDLIFE COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROTEST PERIOD EXPIRES: \_\_\_\_\_ PROTESTED:  Yes  No

COMMENTS REGARDING PROTEST: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

RESEARCH CHECKLIST

- Instream Resources Protection Program
- Surface Water Source Limitations
- Closure
- Low Flow \_\_\_\_\_ CFS
- Metsker
- Well Logs
- Waste Discharge
- Computer Printouts
- Claims Registry
- Copy to DSHS

SEPA:  Exempt  DNS  Final EIS Date of SEPA Action: \_\_\_\_\_

Examiner: \_\_\_\_\_ Date of Exam: \_\_\_\_\_



**CANAL PUMPS & SERVICE, INC.**  
 683-6328 50 HWY 101 W., SEQUIM, WA 98282 3-4220

NAME: Bill Walker  
 ADDRESS: Pulali Point Rd.  
 CITY & STATE:

RE: Pump Test  
 Well Depth: 185'  
 Static Level: 22' 11"

DATE: November 6, 1990

<u>TIME</u>	<u>DRAWDOWN</u>	<u>G.P.M.</u>
10:00 AM	22' 11"	33
10:05 AM	52' 3.75"	33
10:09 AM	67' 7.5"	33
10:11 AM	67' 11.5"	33
10:18 AM	68' 5.5"	33
10:25 AM	69' 0"	33
10:35 AM	71' .5"	33
10:45 AM	73' 1.75"	32.5
10:53 AM	73' 11.75"	32.5
11:05 AM	75' .5"	32.5
11:13 AM	76' 1.75"	31
11:20 AM	84' 6"	31
11:35 AM	92' 10.5"	30
11:50 AM	97' 2.5"	30
12:10 PM	104' 5.25"	30
12:30 PM	109' 5"	30
12:50 PM	113' 10"	30
1:10 PM	117' 8.25"	30
1:30 PM	120' 9"	30
1:50 PM	123' 0"	30
2:10 PM	125' 2"	30
2:30 PM	129' 10.13"	29
2:55 PM	133' 6"	29
3:20 PM	140' .13"	29
3:50 PM	143' 9.5"	29
4:20 PM	145' 9.25"	29
4:50 PM	146' 2"	29
5:10 PM	146' 5.75"	29
5:30 PM	146' 5.75"	29
5:45 PM	146' 5.75"	29
6:00 PM	146' 5.75"	29
6:30 PM	146' 5.75"	29
7:00 PM	146' 5.75"	29
7:30 PM	146' 5.75"	29
8:00 PM	146' 5.75"	29
END OF PUMP TEST		
RECOVERY		
8:05 PM	121' 2.25"	

# Laucks <sup>Since</sup> 1908

## Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX (206) 767-5063

Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9402814-01  
Client Sample ID: Water Sample - Well

Date Received : 02/24/94 Collection Date : 02/23/94

Test	MCL		Results	Units
Antimony	0.006	<	0.0050	mg/L
Arsenic	0.05	<	0.010	mg/L
Barium	2.0	<	0.1	mg/L
Beryllium	0.004	<	0.0020	mg/L
Cadmium	0.005	<	0.0020	mg/L
Chromium	0.1	<	0.01	mg/L
Copper	1.0*	<	0.02	mg/L
Iron	0.3		2.90	mg/L
Lead	0.05*		0.005	mg/L
Manganese	0.05		0.050	mg/L ←
Mercury	0.002		0.0005	mg/L
Nickel	0.1	<	0.040	mg/L
Selenium	0.05	<	0.005	mg/L
Silver	0.1	<	0.010	mg/L
Sodium			21	mg/L
Thallium	0.002	<	0.001	mg/L
Zinc	5.0	<	0.05	mg/L
Hardness			62	mg/L, as CaCO <sub>3</sub>
Conductivity	700		210	Micromhos/cm, 25°C
Turbidity	1.0		4.5	NTU
Color	15.0		25.0	Color Units
Chloride	250	<	20	mg/L
Cyanide	0.2	<	0.100	mg/L
Fluoride	2.0	<	0.5	mg/L
Nitrate	10.0	<	0.5	mg/L
Nitrite	1.0	<	0.5	mg/L
Sulfate	250	<	10	mg/L

RECEIVED

APR 20 1994

JEFF. COUNTY  
HEALTH DEPT.

MCL = Maximum Contamination Level established for drinking water under current EPA and State of Washington regulations. No MCL has been established for hardness or sodium, although 20 mg/L is a recommended MCL for sodium.

\* = This is the Washington State MCL. Federal action levels are 0.015 mg/L for lead and 1.3 mg/L for copper.



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Printed on Recycled Paper 

**WATER SAMPLE INFORMATION FOR INORGANIC CHEMICAL ANALYSES**

LAB. NUMBER <b>20-01108</b>	DATE REC. <b>11 18 90</b>	DATE COLLECTED <b>11 07 90</b>	COLLECTOR <b>Canal Pumps</b>
SYSTEM I.D. NO.	SYSTEM NAME <b>Pulelie Point</b>	SYSTEM CLASS (circle one) 1 2 3 4	COUNTY <b>Jefferson</b>
SOURCE TYPE 1. Surface <input type="checkbox"/> 2. Spring <input type="checkbox"/> 3. Well <input checked="" type="checkbox"/> 4. Purchase <input type="checkbox"/>			TELEPHONE <b>206-683-6328</b>

SOURCE NO (Well No.) \_\_\_\_\_ IF SOURCE IS LAKE OR STREAM ENTER NAME \_\_\_\_\_

THIS SAMPLE WAS TAKEN  
 Before Treatment  
 After Treatment

FEEES ARE CHARGED FOR CHEMICAL TESTING  
A fee schedule is available from this department.

PARTY TO PAY FOR FEE FOR SERVICE TESTING

IF TAKEN AFTER TREATMENT WAS IT \_\_\_\_\_ FILTERED \_\_\_\_\_ FLUORIDATED  
 \_\_\_\_\_ CHLORINATED \_\_\_\_\_ WATER SOFTENER: TYPE USED \_\_\_\_\_

REMARKS: (Water quality problems, address for additional copies, etc.)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature (Required) \_\_\_\_\_ (Print Full Name & Address)  
**Canal Pumps + Service**  
 Name  
**1550 Hwy 101 W**  
 Street  
**Seqvim WA. 98382**  
 City Zip Code  
 Telephone: **(206) 683-6328**  
 Area Code

**LABORATORY REPORT**  
(DO NOT WRITE BELOW THIS LINE)

TESTS	MCL	LESS THAN <	RESULTS	UNITS	Compliance		CHEMIST INITIALS
					YES	NO	
Arsenic As	0.05 <sup>P</sup>	<	0.005	mg/l	✓		JTV
Barium Ba	1.0 <sup>P</sup>	<	0.05	mg/l	✓		
Cadmium Cd	0.01 <sup>P</sup>	<	0.001	mg/l	✓		
Chromium Cr	0.05 <sup>P</sup>	<	0.005	mg/l	✓		
Copper Cu	1.0		.	mg/l			
Lead Pb	0.05 <sup>P</sup>	<	0.002	mg/l	✓		
Manganese Mn	0.05		.	mg/l			
Mercury Hg	0.002 <sup>P</sup>		0.004	mg/l	✓		
Selenium Se	0.01 <sup>P</sup>	<	0.005	mg/l	✓		
Silver Ag	0.05 <sup>P</sup>	<	0.001	mg/l	✓		
Sodium Na			22	mg/l	✓		
Hardness				mg/l AS CaCo3			
Conductivity	700			Micromhos/cm 25° C			
Turbidity	1.0 <sup>P</sup>		4.5	NTU		✓	
Color	15.0		.	Color Units			
Fluoride F	2.0 <sup>P</sup>	<	0.1	mg/l	✓		
Nitrate NO3-N	10.0 <sup>P</sup>		0.1	mg/l	✓		
Chloride Cl	250			mg/l			
Sulfate SO4	250			mg/l			
Iron IS	500			mg/l			
Copper Cu	1.0		.	mg/l			
Zinc Zn	5.0		.	mg/l			

DATE OF FINAL REPORT  
**11-15-90**

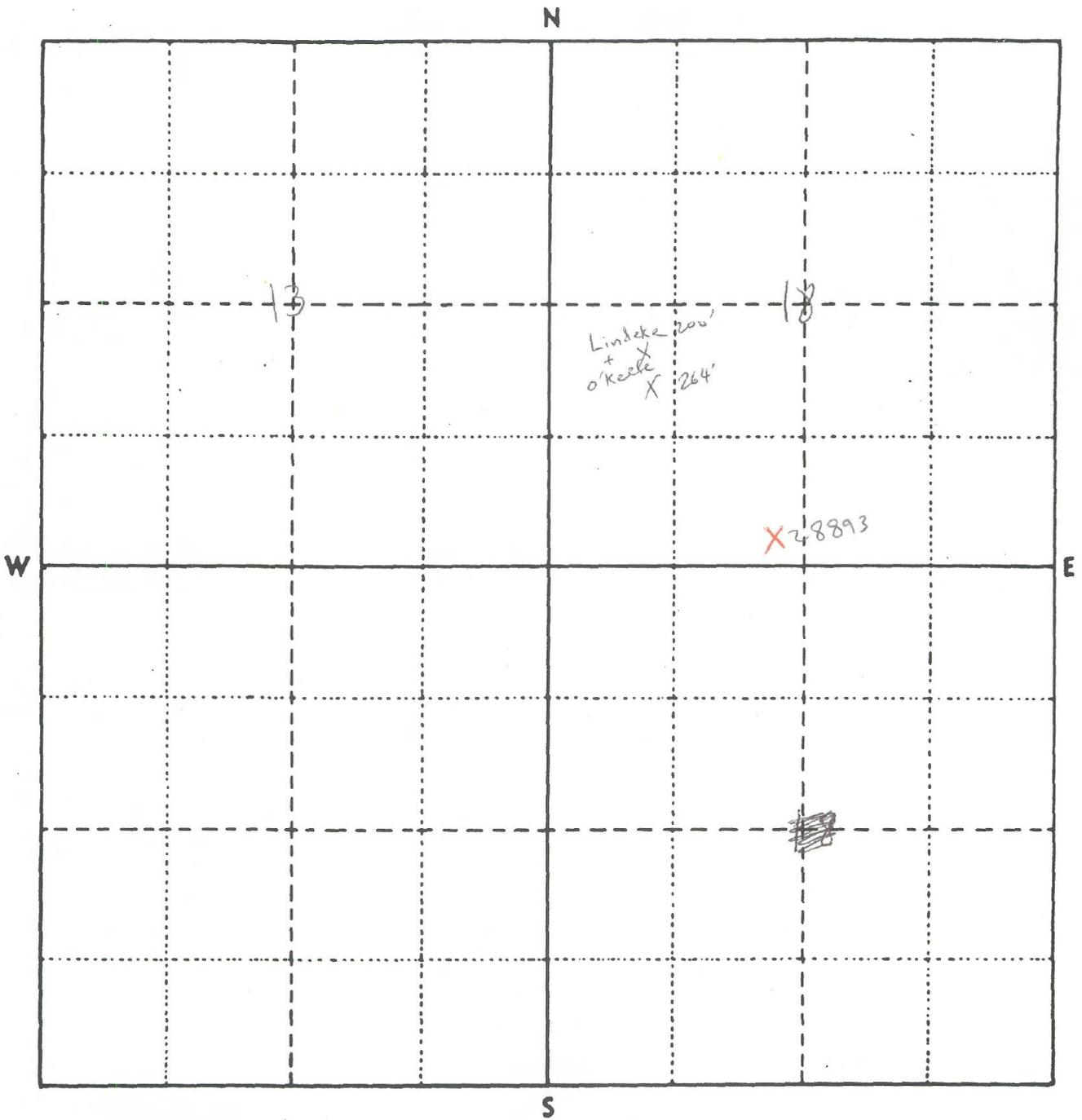
LABORATORY SUPERVISOR  
 (Name or Initials)  
*Justin V. ...*

CHARGE:

REMARKS:

SECTION PLAT

Sec. 18 Twp. 26 N. R. 1



1. Outline property described in application.
2. Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells or works within a quarter of a mile.
3. Indicate traveling directions from nearest town.

Scale: 1 inch = 800 feet (each small square = 10 acres)

17 well reports on Sect. 18

130'-well on Pilate Point had Cl<sup>-</sup> of 6.9 and 9.6 mg/L (50' elev)

2/1968 6/1978

145' deep  
Cl<sup>-</sup> 170

AAB 797 Camp Parsons  
T26N R2W Sect 13H  
at head of Jackson Cove







RECEIVED

98 JAN -5 9:34

George A. Hartman, Architect

3215 E Mercer Seattle WA 98112 - (206) 322-3445 Fax (206) 328-3568

January 5, 1998

**MARY PETERS**  
Department of Ecology  
P.O. 47775  
Olympia, WA 98504-7775

Dear Ms. Peters:

Enclosed is the material you requested. I received an updated bacteriological test from Clark Land office today but if you need a more detailed information you may want to contact the previous engineer Karl Johnson at 360-753-2452.

I am also enclosing a site plan for Pulali Partners future eight residences. As I told you nothing has been built so far so the water consumption for the next year or two will be near zero. As the water rights are a long range proposition it is likely that the homes will become all year-round residences.

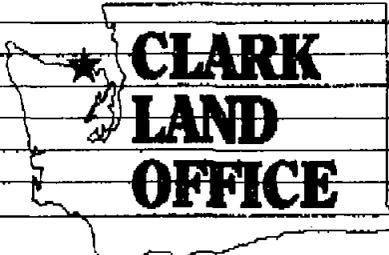
In addition to our own water needs we would like to be able to supply water from our well to the neighbors on adjacent properties: the Parks property Tax 1 and Tax 8, and Theo.Pos property Tax 1, for additional 6 or 7 year-round residences. Some of the owners have not been able to find any water, and other properties have shallow wells that tend to run dry.

Please call me if you need any clarification.

Sincerely,

A handwritten signature in cursive script, appearing to read 'George A. Hartman'.

George A. Hartman

ENGINEERING LAND SURVEYING DEVELOPMENT CONSULTING		<b>CLARK LAND OFFICE</b>
		P. O. Box 2199, 935 N 5TH AVE. SEQUIM, WA 98382
		(360) 681-2161, Fax (360) 683-5310

## FAX TRANSMITTAL

Date: January 5, 1998

To: Mr. George Harriman  
Pulali Point Partners

FAX No: 206-328-3568

From: Dave Hanna   
Principal Engineer

RE: Pulali Point Water system

No. of pages including cover sheet: 2

Hard copy to follow: Yes [ ] No [X]

Good morning Mr. Harriman:

I have reviewed our file on this project and located the bacteriological test report from the tests we performed at the time of project close-out. A copy is transmitted herewith.

Since our firm was not involved during the design phase of this project, we don't have copies of reports of any testing performed at that time. We do have a copy of a letter from Mr. Karl Johnson, PE, of the Washington Department of Health, dated March 23, 1995, which letter notes a higher than normal iron content. This information about iron content could only have been obtained from a chemical analysis, which would normally have been performed during the early stages of the design process. You may be able to get a copy of that test report by contacting Karl Johnson's office at 360-753-2452

Please call if you have any questions.

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN COPY  
If instructions are not followed, sample will be rejected

DATE COLLECTED 7/17/97	TIME COLLECTED NOON <input type="checkbox"/> AM <input type="checkbox"/> PM	COUNTY NAME Jefferson
TYPE OF SYSTEM <input checked="" type="checkbox"/> PUBLIC <input type="checkbox"/> INDIVIDUAL (resides only 1 residence)		IF PUBLIC SYSTEM COMPLETE: I.D. No. [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
CIRCLE GROUP A <input type="checkbox"/> B <input checked="" type="checkbox"/>		

NAME OF SYSTEM  
Pulali Point Water System

SPECIFIC LOCATION WHERE SAMPLE COLLECTED  
Pump house

TELEPHONE NO  
DAY (360) 681-2161

SAMPLE COLLECTED BY: (Name)  
M. Hill

SYSTEM OWNER/MGR: (Name)  
Pulali Partners

SOURCE TYPE  
 SURFACE  WELL or WELL FIELD  SPRING  PURCHASED or INTERMEDIATE  COMBINATION or OTHER

SEND REPORT TO: (Print Full Name, Address and Zip Code)  
Clark Land Office  
P.O. Box 2199  
Sedro, WA 98282

TYPE OF SAMPLE (check only one in this column)

ROUTINE DRINKING WATER (check treatment)  
 Chlorinated (Residual: Total Free)  
 Filtered  
 Untreated or Other

REPEAT SAMPLE  
 Previous Coliform presence: LAB # \_\_\_\_\_ Date: / /

RAW SOURCE WATER Source # S [ ] [ ]  Total Coliform  
 NEW CONSTRUCTION or REPAIRS  Fecal Coliform  
 OTHER (Specify): \_\_\_\_\_

REMARKS:

(LAB USE ONLY) DRINKING WATER RESULTS

UNSATISFACTORY, Coliforms present  
 SATISFACTORY, Coliforms absent

REPEAT SAMPLES REQUIRED  
 E. Coli present  E. Coli absent  
 Fecal present  Fecal absent

OTHER LABORATORY RESULTS  
 TOTAL COLIFORM \_\_\_\_\_ /100 ml E. COLI \_\_\_\_\_ /100ml  
 FECAL COLIFORM \_\_\_\_\_ /100 ml PLATE COUNT \_\_\_\_\_ /ml

ANOTHER SAMPLE REQUIRED

SAMPLE NOT TESTED BECAUSE:  
 Sample too old  
 Wrong container  
 Incomplete form  
 \_\_\_\_\_

TEST UNSUITABLE BECAUSE:  
 Confluent growth  
 TNTC  
 Turbid culture  
 Excess debris

SEE REVERSE SIDE OF GREEN COPY FOR EXPLANATION OF RESULTS

LAB NO. (7 DIGITS) 01016839	DATE, TIME RECEIVED 7/18/97 11:40	RECEIVED BY [Signature]
DATE REPORTED 7/24/97	LABORATORY TWISS ANALYTICAL 26200 DLHAYA WAY, SUITE C DUF CENTER COPYPOOLSBO, WA 98370	





George A. Hartman, Architect

3215 E Mercer Seattle WA 98112 (206) 322-3445 Fax (206) 328-3668

IN JEFFERSON COUNTY, WASHINGTON;  
PORTIONS DESCRIBED AS FOLLOWS:

AGE OF TWO ACRES AND DESCRIBED IN  
TION 18; ALSO EXCEPT; THAT PORTION

D RUNNING THENCE EAST ALONG THE SOUTH  
WEST LINE OF SAID LOT 3, 235 FEET;  
Y. ALONG THE WEST LINE OF SAID LOT

TAX 1

PARKS  
PROP.

N. IN JEFFERSON COUNTY,  
LAPLETTE MERIDIAN,

TAX 8

TOWNSHIP AND RANGE  
235 FEET; THENCE  
Y. ALONG  
G SAID

N 90° 00' 00" W  
550.00

lot own  
wetlands  
JEFFERSON  
ON GOVERNMENT

JACKSON

4"x4" CON. MON.  
WITNESS COR. TO  
MEANDER COR.

EAST

1051.53

ND CLASS  
SHOWN ARE  
E STATE OF  
S CAN ONLY  
H ADJACENT

TIDELANDS OF THE SECOND  
COVE

TIDELANDS OF THE SECOND CLASS  
DABOB

DIVISION BASED ON  
347 SURVEY ON FILE  
OF THE JEFFERSON CO.  
COVERY OF MON'S SHOWN THEREON.

APPROXIMATE MHW  
(BY VEGETATION) TYP.

TYPICAL PRIVATE ROAD  
*entry foot over 25'  
not have Jefferson county*



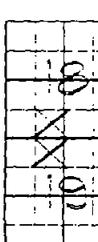
SCALE: 1" = 200'



USC4GS PER  
JEFFERSON C  
AERIAL TOPO  
GRAPHIC MA  
PING OF 1980

LEGEND:

- ◉ = GOVERNMENT CORNER
- ⊙ = INTERIOR GOV'T. LOT CORNER
- = 1/2" REBAR W/ LS 20643 NYLON CAP

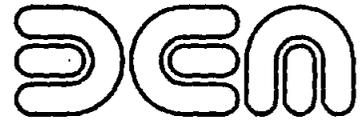


S. 18 & S. 19, T. 10  
R. 1 WEST

CERTIFICATE

DAY OF \_\_\_\_\_  
OF \_\_\_\_\_  
REQUEST OF \_\_\_\_\_  
ASSOCIATES

RECORD OF SURVEY



DAVID EVANS AND ASSOCIATES, INC.  
3100 NW BUCKLIN HILL RD. SUITE 105  
SILVERDALE, WA. 98383 (206) 698-1661

SHEET \_\_\_\_\_  
SCALE \_\_\_\_\_  
SURVEYED \_\_\_\_\_  
FIELD BOOK \_\_\_\_\_  
DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_  
FILE \_\_\_\_\_

# new and/or expanding Class 4 Water System Workbook

## CHECK LIST NEW, AND/OR EXPANDING CLASS 4 WATER SYSTEMS

- Water Right Permit .....
- Vicinity Sketch .....
- Layout Sketch .....
- Source Location & Protection Sketch .....
- Source Site Inspection .....
- Control Area including Restrictive Covenant.....
- Well Log .....
- Pump Test .....
- Bacteriological Analysis Results .....
- Chemical Analyses Results .....
- Pressure Tank Standards .....
- Equipment Specifications .....

STATE OF WASHINGTON  
DEPARTMENT OF SOCIAL & HEALTH SERVICES



Health Services Division  
Water Supply and Waste Section  
LD-11  
Olympia, WA 98504

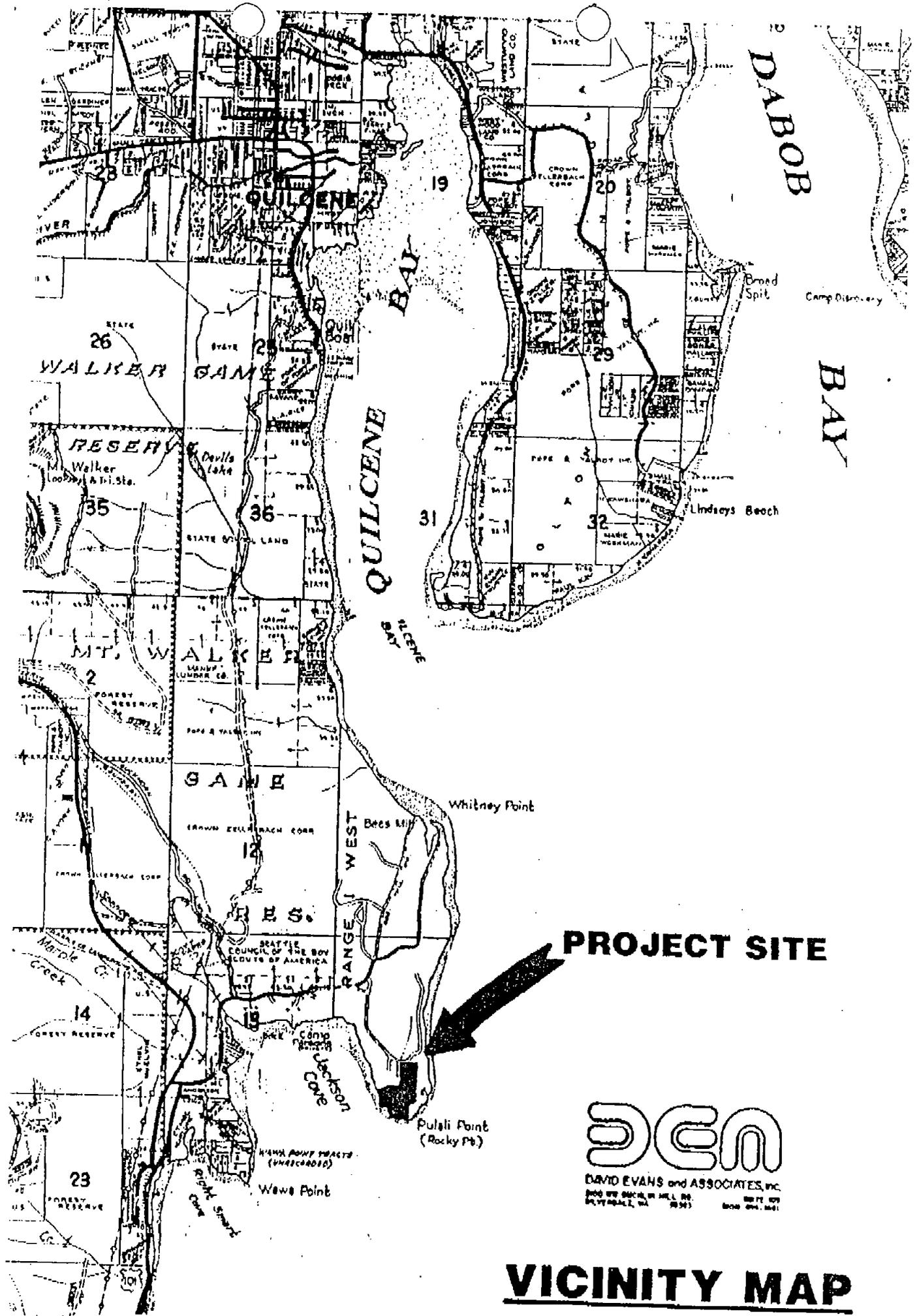
Fee 100.00  
 Receipt # 13752  
 7-22-93

WELL SITE INSPECTION CHECK LIST

Project: Pulali Point Subdivision Received: July 22, 1993  
 Location: Pulali Point, Jefferson County Inspected: August 5, 1993  
Section 19, Township 26N, Range 1W By: Celia Kestuslin  
 Owner: Pulali Point Partners Name of any representative or owner present during your inspection:  
11000 Whitcomb Place  
Woodway, WA 98020 Otto Burden, Olympic Eng  
 Submitted by: Olympic Engineering, Otto Burden  
Engineer or Land Surveyor

In answering the following, the term well site means all the area within one hundred feet of well; the term well means the spot where the well is to be drilled or is already drilled. is answer means agreement with the statement or question.

	<u>Yes</u>	<u>No</u>
Map provided was accurate, based on your observations at the well site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Slope of ground within well site and beyond is not such as to endanger well from possible run-off contamination?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
No evidence of existing sources of contamination within 100 feet of the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If public or private roads pass within 100 feet of well, are they now ditched or otherwise drained in a manner which safely conducts surface run-off away from well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If well is an existing well:		
Does ground slope away from immediate vicinity of well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is well adequately sealed and covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is visible construction in sound condition? (Concrete, piping, electrical, floor slab, building, etc.)	<input type="checkbox"/>	<u>N/A at this time</u>
Is there a substantial concrete slab poured around the well casing?	<input checked="" type="checkbox"/>	<u>N/A at this time</u>
Does casing extend at least 12-inches above slab?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
In your opinion, is the overall well site satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>



**DEA**

DAVID EVANS and ASSOCIATES, Inc.  
 1000 1ST AVENUE, S.W. SUITE 1000  
 SEATTLE, WA 98101

**VICINITY MAP**

N.T.S.



## NEW SYSTEMS

## Section 2. Source Development—to be completed for each source. (Appendix 1)

## A. General Source Data

## I. \*Wells

a. Well Logs: Existing Well....., New Well...X.....  
Attached....., Not Available.....

b. If not available, contact your local health agency.

c. Well construction: .....X..... Satisfactory ..... Unsatisfactory (Appendix 1)

d. If construction is not to standards, list deviations and attach.

## II. \*Springs (Appendix 4) (N/A for this project)

a. Recharge Area: Defined....., Protected.....

b. Waterbearing Strata: Protected....., Unprotected.....

c. Spring collection according to Appendix 4, figure ....., or if Appendix 4 is not applicable, sketch actual configuration and attach.

## B. \*Source Collection Site

a. Site Inspection: ... X ... Satisfactory ..... Unsatisfactory (Appendix 2—attach report)

b. Protective covenants/easements: .....X..... Satisfactory ..... Unsatisfactory ..... Unobtainable (Appendix 3)

c. For 100 ft. radius . X . , 200 ft. radius ....., Other ..... (Define on attached sheet)

When clearly justified these requirements may be reduced or increased by the health officer and lesser or more stringent requirements may be imposed.

d. Recorded ... X..... Yes, ..... No, Number, .....

If the protective covenants/easements are "unobtainable", contact your local health agency regarding a request for variance. "Unobtainable" may be defined by the local health department if a reasonable attempt has been made by the purveyor to secure the restrictive covenants and/or easements.

## C. Source Capacity

a. Number of connections ... 8 . , Maximum required peak flow ... 34 . 7 . gpm (Table 1, page 7)

b. Required Daily Production: ... 4 . 5 . gpm 6,400.....gpd (Table 1, page 7)

c. Source capacity (by pump test, boiler test is unacceptable) . 29..... gpm 41,000. gpd  
If some other technique is used, include details on an attached sheet.

d. Proposed Pump Rate: ... 25 . gpm 36,000.gpd

If the proposed pump rate is less than the maximum required peak flow, refer to Section 4, page 5, for the required storage.

\*If the response to any portion of these subsections is "unsatisfactory", "undefined", or "unprotected", please contact your local health agency.

**NEW SYSTEMS**

**NEW SYSTEMS—Cont.**

**D. Pumping Equipment (Appendix 7)**

**i. Source Pump**

a. Pump rate .....25.....gpm (Must be no less than Required Daily Production)

Note: Section 6, page 6, "Distribution System Sizing and Headloss" must be completed before filling out the following form.

**b. Required Pump Head (Appendix 7)**

	WELL	SPRING
Static Head		
(a) Well lift	.....146.5.....ft.	.....ft.
(b) System Elev. Diff.	.....10.0.....ft.	.....ft.
Headlosses	.....8.0.....ft.	.....ft.
Residual (30 psi)	.....70.0.....ft.	.....ft.
<b>TOTAL</b>	<b>235</b> .....ft.	.....ft.
Available Pressure Head	.....N/A.....ft.	.....ft.

Also, use this method if the source pump delivers to a storage tank where repumping is necessary; then a residual of 0 or close to 0 may be considered in pump sizing.

For springs, if the available pressure head exceeds the required pump head, then no pump will be required.

**c. Required pump:**

Total required Pump Head .....235.....ft.

Pump Rate .....25.....gpm

Select pump from pump catalog for .....235.....head and pump rate of .....25.....gpm.

Place check valve on pump

**d. Selected Pump. (attach pump curve and specifications)**

Type.....Submersible....., Manufacturer.....Grundfos..... Model No.....SP-4-19.....

RPM.....3450....., Horsepower.....2.0.....

Pump rate .....25.....gpm, at a head of .....240.....ft. giving .....58.....% efficiency (when available)  
(62% is maximum)

**e. Depth of pump setting.....155.....ft.....below top of casing**

In situations where repumping from a storage tank is necessary, a booster pump must be sized as below.

**ii. Booster Pump**

N/A

a. Pump rate .....gpm

**b. Required pump head**

	WELL	SPRING
System Elev. Diff.	.....ft.	.....ft.
Headlosses	.....ft.	.....ft.
Residual (30 psi)	.....ft.	.....ft.
<b>TOTAL</b>	.....ft.	N/A.....ft.

**NEW SYSTEMS**

**Section 3. Water Quality Data**

- a. Water Chemistry:  Satisfactory,  Unsatisfactory  
Attach copies of analysis reports
- b. Bacteriological:  Satisfactory,  Unsatisfactory  
Attach copies of analysis reports

Additional analysis may be required at the discretion of the local health agency.

Water quality requirements are discussed in detail on page 3. ("Class 4 Water System Design—Requirements, Procedures and Examples")

**Section 4. Storage**

- a. Required Peak Flow 34.7 gpm = X Section 2(C) page 2
- b. Pump Rate 25 gpm = Y (from Sec. 2 (D), (i), page 3)  
If the pump rate is greater than the required peak flow, no storage is needed.
- c. If the pump rate is less than the required peak flow, the needed storage is:

$$\begin{aligned}
 & *20 \left( X - Y \right) \\
 & 20 \text{ min. (Required Peak Flow — Pump Rate)} \\
 & 20 \text{ min. ( } 34.7 - 25 \text{ )} \\
 & 20 ( 9.7 ) = 194 \text{ gallons}
 \end{aligned}$$

**Section 5. Pressure Tank Sizing**

- a. Pressure tank will be ASME  equivalent (Attach specifications)
- b. ASME approved relief valve is installed. Yes  No
- c. Pressure tank is for: Pump protection , storage , both
- d. Working storage:

(A) Pump rate 25 gpm. \*2.5 x pump rate = 62.5 gallons

(B) Storage requirement (from Section 4) = 194 gallons

When tank is for pump protection, use A above and refer to Table 2, Page 7.

When tank is for storage or both, use larger of A or B above and refer to Table 2, Page 7.

- e. Pressure tank is  horizontal  vertical
- f. Selected tank size 422 gal (See Attached Data By Manufacture)
- g. \*\*Selected Pressure Range 44 / 70
- h. Is air make-up by  sniffer valve,  compressor,  other (specify)

i.

Storage Type	Capacity (gallons)		Repumped	Gravity	Sketch configuration below. Show materials, dimensions, plumbing.
	New	Old			
Elevated Tank					(See Attached)
Ground Level					
Pressure Tank s	422	-			
Other (define)					

\* "Design Standards for Public Water Supplies"

\*\* Minimum Pressure Tank Setting = System elev. diff. + Friction loss + 70'

**NEW SYSTEMS**

c. Select pump from catalog for .....head and well pump rate of.....gpm.

d. Selected Pump: (attach pump curve and specifications) ..

Type....., Manufacturer....., Model No. ....

RPM....., Horsepower.....

Pump rate ..... gpm, at a head of .....ft., giving .....% efficiency (if available).

**E. Pumphouse (Appendix 5)**

a. Pumphouse will conform to Appendix 5, figure.....

b. If Appendix 5 does not apply, sketch pumphouse layout and attach. Attached .....X.....yes .....no

c. Required Pumphouse Components (Appendix 5)

	Satisfactory	Unsatisfactory
Heating		
*Wiring		
Well Casing	X	
Sanitary Well Seal	X	
Pressure Gauge	X	
Casing Vent	X	

Floor Drain			
Pump Mounting			N/A
Flooring		X	
Security		X	
Chlorine Injection Point			N/A
Inspection Port			N/A
Raw Water Sampling Tap		X	

\*Approval by building inspector.

d. Optional items included in pumphouse:

	Included	Satisfactory	Unsatisfactory
Pressure Tank		X	
Pump to Waste			
System Alarms			
Sampling Tap		X	

	Included	Satisfactory	Unsatisfactory	
110 outlet wired with pump		X		
M/O Equipment				N/A
Meter				N/A
Airlines		X		

A definition of satisfactory and unsatisfactory for all pumphouse components is included in Appendix 5.

September 11, 1997

3215 E. Mercer

Seattle, Washington 98112

RECEIVED

'97 SEP 12 10:47

STATE OF WASHINGTON  
SW REGIONAL OFFICE

VIA FACSIMILE (360-664-8058)

Karl Johnson, P.E.  
WSDOH Regional Engineer  
Washington Department of Health  
Southwest Drinking Water Operations  
2411 Pacific Avenue  
P.O. Box 47823  
Olympia, Washington 98504-7823

Re: Pulali Point Water System, ID #060851, Jefferson County  
Approval to Serve Up to Eight Residential Connections

Dear Mr. Johnson:

Thank you for your letter dated September 5, 1997. We appreciate your willingness to approve eight connections to our water system, given the circumstances. This letter responds to your request for additional information regarding those circumstances—particularly the restrictions which will prevent the water system from using more than 5,000 gallons of water per day.

The Pulali Point property (the "Subdivision") constitutes approximately 40 acres of rocky, forested topography on the Hood Canal. Jefferson County has approved our plan to divide the property into a permanent habitat conservation zone of approximately 20 acres, and eight waterfront lots of approximately equal size. The owners voluntarily entered into a Bald Eagle Management Plan with the Washington Department of Wildlife that restricts alteration of the property's habitat. Those restrictions include preservation of the habitat conservation zone, limits upon building clearings to 6,000 square feet for each lot, and other buffer areas that preserve vegetation and trees. An excerpt of the Bald Eagle Management Plan, containing the pertinent terms and conditions, is transmitted with this letter.

In addition, the owners voluntarily entered into a Conservation Agreement that seeks to ensure that the property remains "in as natural and pristine a state as possible," and imposes more conditions, such as lot line setbacks that will preserve the natural vegetation between lots. A copy of the Conservation Agreement is transmitted with this letter.

Under these circumstances, only minimal (if any) outside irrigation will occur at the property under any future scenario. Furthermore, for the foreseeable future, the residences will be for recreational use, with one apparent exception. Even if some or all of the recreational residences are converted to year-round, full-time residences in the future, it is clear that the habitat restrictions will severely restrict the opportunity or need for outside irrigation.

The Pulali Point Partners are in the process of finalizing the Subdivision platting, and are drafting a Declaration of Covenants, Conditions and Restrictions (the "Declaration") that will be recorded with Jefferson County and will govern the property's use in the future. The Declaration will incorporate the restrictions described above. In addition, in order to further limit water usage, we are prepared to include a restriction in the Declaration that accomplishes the following:

"Water Use. It shall be a goal of the Owners to conserve water resources, and to share water usage equitably and proportionately. The entire Subdivision shall use no more than 5,000 gallons of water per 24-hour day. Within the entire Subdivision, there shall be no more than one-half acre of outside irrigation at any one time. On any given 24-hour day, each Lot shall be entitled to use the proportion of the 5,000 gallon limit represented by dividing 5,000 gallons by the number of Lots occupied on that day. By way of example, if all eight Lots were occupied on a given day, each Lot would be entitled to use 625 gallons of water during that 24-hour day (i.e., 5,000 gallons divided by eight). The same proportionate usage arrangement shall apply to outside irrigation. It shall be the burden of each individual Lot Owner to ensure compliance with water usage limitations applicable to their individual Lot. In the event that a Lot is occupied as a year-round, full-time residence, that Lot shall install a water meter to ensure compliance with water usage limitations applicable to that individual Lot."

Given all of the above, we hope that you will approve the water system, with eight connections. If you have any questions, please call me. I can be reached by telephone at (206) 322-3445, or by fax at (206) 328-3568. Again, we appreciate your efforts regarding this matter.

Sincerely,

  
George A. Hartman  
Pulali Point Partner

Encs.

Karl Johnson, P.E.  
September 11, 1997  
Page 3

cc: Jefferson County Environmental Health  
Sheri Carroll, WSDOE  
Marie Peter, WSDOE  
Pulali Partners

WASHINGTON STATE DEPARTMENT OF WILDLIFE

BALD EAGLE SITE MANAGEMENT AGREEMENT

On behalf of the people of the State of Washington, to which its wildlife belongs, the following agreement is hereby enacted for the purpose of protecting bald eagles and their habitats.

The landowner(s), or agent for the landowner(s), and WDW agree to the conservation measures described in the attached site management plan.

**Site Name:** Pulali Point Large Lot Subdivision

**Legal Description:** Portions of Section 18 & 19, Township 26 North, Range 1 West, W.M.

In witness where as mutually agreed upon and signed this day of \_\_\_\_\_:

PULALI POINT PARTNERS

[Signature] PARTNER 2-10-93  
Landowner Date

11000 WILKOMB PL.  
Address

WOODWAY, WASH. 98020  
City, State, Zip

The State of Washington, Department of Wildlife

[Signature] 3/19/93  
Regional Manager Date

[Signature] 3/17/93  
Area Biologist Date



## MANAGEMENT TERMS AND CONDITIONS

This management strategy has been developed to protect and maintain the integrity of the nesting territory by protecting the existing nest trees, perches, and potential habitat from adverse alteration or disturbance. The condition of this plan will deal with the subject of nest territory viability three ways: 1) Protected Areas: 2) Perch and Nest Tree Protection: and 3) Secondary Protected Zones and Conditions.

### Protected Areas

The proposed Protected Area within the Pulali Point parcel will be designated as a permanent habitat conservation zone (Figure 2, attached). This approximate 20-acre area is designated as Common Area "A" and includes all habitat north of the access road from Pulali Point Road to the U.S. Naval facility. The access road should be kept to the smallest acceptable width for safety and County standards. No logging or construction activities should occur within the conservation zone.

### Perch and Nest Tree Protection

The intent of these areas is to protect the mature trees which the eagles have historically used and to protect those trees which could potentially be used.

1. All tall conifer trees around the abandoned homestead and all trees on the property greater than or equal to 18 inches diameter at breast height (dbh) shall be protected in perpetuity.
2. Trees that threaten the residences or proposed building sites may be removed after a written report from a professional forester is approved by WDW.
3. Large trees along the shoreline have been located and shown on the siteplan. There shall be a 50' radial buffer around these trees. No building nor clearing shall occur within this buffer. Some selective thinning of the buffer is allowed for view purposes. Thinning is to be reviewed with the Washington State Department of Wildlife.

### Secondary Protected Zones and Conditions

The intent of these areas and conditions is to protect the habitat where the proposed lots are to exist and to minimize disturbance that could disrupt eagle activity. Long-term maintenance of these areas are important to the long-term viability of the bald eagle and other local wildlife. The conditions proposed for this area are as follows:

1. No vehicular access is allowed via the common area between lots 3 & 4;
2. Retain all snags greater than or equal to 12 inches dbh;
3. Retain optimum overhead canopy;

4. Proposed locations for the cabins shall be limited to those areas shown as the building envelope on the attached siteplan.
5. A 50 foot buffer shall be maintained from the top of bank. No construction nor clearing will be allowed within the buffer. Some selective thinning is allowed for view purposes. Thinning is to be reviewed with the Washington State Department of Wildlife. Determination of this buffer shall be coordinated with Jefferson County prior to issuance of a building permit.
6. The total clearing for each lot shall not exceed 6,000 square feet, excluding driveways & utilities; and
7. All construction activities shall occur only during the non-breeding season (August 15 until January 1 of any calendar year). If no active nest exist within 1/4 mile from the proposed building site, construction activities will be permissible at any time if authorized by WDW.

### **MONITOR AND REVIEW**

Implementation of this plan will begin when the landowners, or agent for the landowners, agrees to the plan by signing it. If the WDW and the landowner(s) can not agree to the plan, the landowner(s) can refer the plan to the Bald Eagle Oversight Committee or file a formal appeal as outlined in WAC 232-12-197.

The conditions of the plan do not supersede local, county, state, federal, or other regulations that are related to environmental protection (e.g. Shoreline Management Act, SEPA). It is the responsibility of the landowner(s) to assure that the appropriate permits are obtained and to address concerns other than bald eagle habitat protection.

To assist with the administrative execution of this plan, the following procedures have been added as conditions of the Eagle Management Plan:

1. Clearing for the building pads may only occur after the issuance of a building permit.
2. A copy of the building plans and application shall be sent to the WDW when submitting to Jefferson County.
3. A wildlife biologist shall review and verify that the building plans are in compliance with the Eagle Management Plan. This letter shall be included with the submittal of the building permit application to Jefferson County.
4. All building plans and applications are subject to the conditions of the Eagle Management Plan.

ORIGINAL

PULALI POINT PARTNERS  
CONSERVATION AGREEMENT

It is the intention of the Pulali Point Partners (the "Partners") to maintain the approximately 40 acre Pulali Point Property (the "Property"), more specifically described in the attached Exhibit A, in as natural and pristine a state as possible, consistent with the construction and use of residences and related improvements on their individual lots within the Property. To that end, the Partners hereby agree to the following restrictions upon the use of the Property:

1. The conditions of the Bald Eagle Management Plan dated March 8, 1993, and the related Bald Eagle Site Management Agreement executed by the Partners on February 10, 1993, and by the State of Washington Department of Wildlife on March 17 and 19, 1993, shall apply to the Property.

2. Commercial logging shall be prohibited.

3. Clear-cutting of trees and vegetation shall be prohibited, except as is reasonably necessary for the following: (a) the building of a residence and related improvements; (b) the clearing of trees and vegetation near a residence and related improvements: (i) to protect the structures from falling trees or branches, and (ii) to use and enjoy the area adjacent to such structures for normal residential purposes; and (c) the reasonable creation or enhancement of views from a residence. However, in the event that a Partner desires to engage in any of the exceptions set forth in the preceding sentence within fifty (50) feet of an abutting Partner's property ("Abutting Owner") the Partner shall inform the Abutting Owner of the proposed action in writing in advance to permit the Abutting Owner to object and seek a ruling from the Pulali Point Partners Executive Committee. When a Partner has provided such notice, no proposed action shall be commenced until the Abutting Owner has responded in writing that there will be no objection or until thirty days after the posting of the written notice, whichever occurs first. In the event that the Abutting Owner objects to the proposed action and requests a ruling from the Pulali Point Partners Executive Committee, no proposed action shall be commenced until a final ruling is made. The provision of notices and objections, as well as the rendering of decisions by the Executive Committee, shall be in accordance with the Pulali Point Partners Association Bylaws.

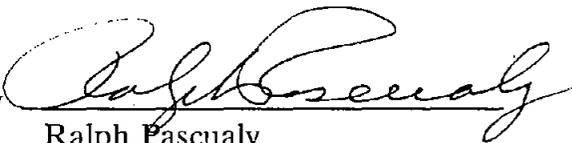
4. The operation of recreational off-road vehicles (e.g., dirt bikes, ATVs, etc.) shall be prohibited.

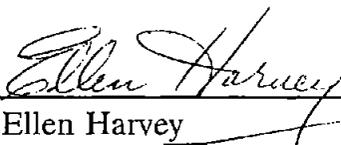
5. Hunting and the discharge of firearms shall be prohibited.

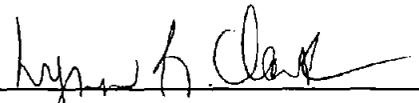
6. There shall be no rental of the Partners' individual lots within the Property for a period less than two months. All renters, if any, shall be subject to the terms of this Conservation Agreement.

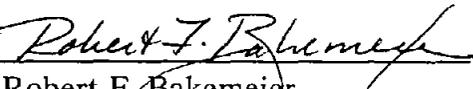
This Conservation Agreement shall run with the Property and shall be binding upon the successors, assigns, personal representatives and heirs of the Partners. This agreement may be altered or amended by a majority vote of the Pulali Point Partners partnership interests. Any disputes regarding this agreement or the application of its provisions shall be resolved in accordance with the Pulali Point Partners Association Bylaws.

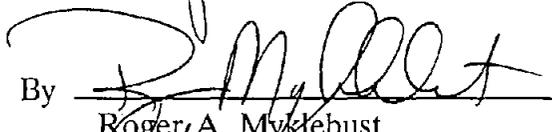
DATED the 22nd day of January, 1996.

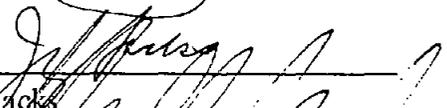
By   
Ralph Pascualy

By   
Ellen Harvey

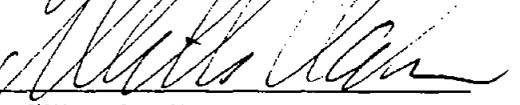
By   
Herbert R. Clark

By   
Robert F. Bakemeier

By   
Roger A. Myklebust

By   
Jay Sacks

By   
George A. Hartman

By   
William Walker



RECEIVED

STATE OF WASHINGTON

DEPARTMENT OF HEALTH

'97 SEP -8 A9:53

SOUTHWEST DRINKING WATER OPERATIONS

2411 Pacific Ave. • P.O. Box 47823 • Olympia, Washington 98504-7823  
(360) 664-0768 • FAX (360) 664-8058

TDD Relay Service: 1-800-833-6388

S.W. REGIONAL OFFICE

September 5, 1997

George Hartman  
3215 E. Mercer  
Seattle, Washington 98112

Subject: Pulali Point Water System, ID #060851, Jefferson County, Request  
for Approval to Serve Up to Eight Residential Connections

Dear Mr. Hartman:

I have reviewed your letter dated August 11, 1997, requesting approval for the subject system to serve up to eight residential connections. I have also discussed the water right issue with Sheri Carroll and with Marie Peter at the Department of Ecology.

It appears that Ms. Carroll's letter, dated August 4, 1997, is a miscommunication of the association of water right permit exemption rules and water demand estimation for annual water right limits. The 5000 gallon per day water right permit exemption is a limit on peak day water use, not on annual average water use. If the annual average water use of a water system was 5000 gallons per day then the peak day use would surely exceed this amount unless the system used the exact same amount of water every day.

This department uses 800 gallons per connection per day as a peak day demand estimate for the average residential water user. Long time experience has shown this to be a pretty reasonable estimate of peak day water use for most water systems. However, we also know that for various reasons some systems use more than this and some use less. We have found that water systems use about two to three times as much water on a peak day as on an average day. The reason for this is outdoor water use during hot dry weather. Therefore, if a water system has no outside water use we would expect that peak day water use would be lower than 800 gallons per connection.



George Hartman  
September 5, 1997  
Page 2

I believe it is possible to accommodate your request for two additional water connections, but not based on the water right information you have provided. From our telephone conversation I understand that both the local terrain and certain land use restrictions placed on the subdivision will limit or completely eliminate outside water use for the users of this water system. Please provide a written explanation of the limitations on water use which prevent the water system from using more than 5000 gallons per day. If it is clear that the restrictions will prevent water use in excess of the exemption criteria, then we will be willing to approve the additional connections.

If you have any questions please call me at (360) 753-2452.

Sincerely,



KARL JOHNSON, P.E.  
WSDOH Regional Engineer

cc: Jefferson County Environmental Health  
Sheri Carroll, WSDOE  
Marie Peter, WSDOE



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

P.O. Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

August 22, 1997

Mr. George Hartman  
3215 E. Mercer  
Seattle, WA 98112

Dear Mr. Hartman:

Re: Water Right Application #G2-28893 for Pulali Point

This letter is being sent as a follow-up to Ecology's letter dated August 4, 1997. In that letter, Sheri Carroll quoted the water right exemption from RCW 90.44 which states that a permit is not required for domestic supply if withdrawals will not exceed 5,000 gallons per day and no more than 1/2 acre of lawn or non-commercial garden will be irrigated. However, a subsequent paragraph explaining how Ecology allocates annual quantities, appears to have caused some confusion as to what conditions actually trigger the need for a water right permit.

If a permit were to be issued under your application, Ecology would allocate up to 450 gallons per day for the proposed year-round residence (less water would be allocated if no lawn or garden watering is proposed) and an appropriate percentage thereof for the seasonal residences. However, the average projected daily use and the total annual withdrawal, are not determining factors for whether or not a project is exempt from the permitting requirement.

If withdrawals would exceed 5,000 gallons per day on any one day, a permit is required. Also, if irrigation of a cumulative total of more than 1/2 acre of lawn or garden is proposed under a project, a permit would be required.

It is my understanding that under the Pulali Point project, there will be eight homes of which only one will be a year-round residence, and that none of these homes would require water for outdoor irrigation. Given this information, and our estimate of water needs, Ecology believes that this project *may* be exempt from the permitting requirement. However, if the Department of Health determines that a peak flow of 800 gallons per day per home is necessary under this project, then only six residences may be hooked up under the water right exemption.

We apologize for the confusion resulting from the August 4th letter. I hope that this letter clarifies what may have appeared to be an inconsistency between the requirements of Ecology and Health. If you have any questions concerning water rights, please call me at (360) 407-0279. Please contact Karl Johnson at the State Department of Health if you have any questions concerning water system/peak flow requirements for your project.

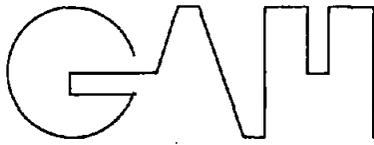
Sincerely,

Marie Peter  
Water Resources Program

MP:cl

cc: Karl Johnson, Department of Health





George A. Hartman, Architect

3215 E Mercer Seattle WA 98112-(206) 322-3445 Fax (206) 328-3568

August 11, 1997

Re: Water service to 8 lots of Pulali Point Partners

DEPARTMENT OF HEALTH  
Karl W. Johnson  
WSDOH Regional Engineer  
SouthWest Drinking Water Operations  
2411 Pacific Avenue  
Olympia WA 98504  
P.O.Box 47823

Dear Mr. Johnson:

I met with Sheri Carroll from the Department of Ecology in Olympia on July 24th. In reviewing our 1993 application G-2-28893 for Water Rights and the water consumption standards we found the Department of Ecology criteria quite different from those of the Department of Health. In her letter dated August 4, 1997, copy enclosed. Ms. Carroll writes:

*"The Department of Ecology bases annual quantities allotted for recreational residential services at 225 gallons per day or less. The single year round residence will be allotted 450 gallons per day."*

According to the Department of Ecology criteria, the basis for computing water consumption for recreational residences is shown on the enclosed page 3:  $400 \text{ gpd/lot} \times 25\% = 100 \text{ gallons per day}$ . For eight recreational residences the consumption would be 800 gallons per day. Assuming that the recreational residences might be converted to year round residences, at 450 gpd, total maximum consumption would be 3,600 gallons per day. This is significantly less than the 5,000 gpd maximum.

Based upon the Department of Ecology criteria and the 450 gpd calculation, Ms. Carroll has confirmed in the enclosed letter dated August 4, 1997, that we need not seek a water rights permit. We are exempt under Washington Water law. She suggested that we withdraw our application as soon as the Department of Health grants us a connection to all eight lots. We hope that will occur immediately.

We are sending you this documentation prior to scheduling a meeting with you on connecting our water system to all 8 lots. The following are some of the pertinent facts:

All eight residences will be recreational places for the foreseeable future and consequently there will not be a daily consumption of water. Only one of the eight partners plans to build immediately and possibly use his residence year round. The rest of the properties will be developed gradually over several years. Most of the owners are young professionals with practices and full-time residences in Seattle or Tacoma.

Because of the rocky topology and forested lots, there will be no irrigation. Water consumption will be kept to the minimum. Also as environmental standards become more restrictive with new more efficient showerheads and toilets and other water conservation measures it is very likely that the current criteria for water consumption will be reduced and the question of a 5,000 gpd will become moot.

We would be willing to install a meter that would log the daily consumption of water. Such monitoring would ensure that we will not exceed the 5,000 gpd with water connections to all eight lots. If the Jefferson PUD runs our system, the PUD could monitor the daily consumption. Our Jefferson County planning permit is expiring on November 18, 1997. We want to resolve this matter before our permit expires.

We have a 155 foot deep well with a water capacity of 41,000 gpd. Applying the Department of Health number of 800 gpd this single well could theoretically serve 51 lots. Applying the Department of Ecology criteria of 450 gpd, the well could theoretically serve 91 lots. Of course, we have limited our plat to 8 lots. Under the circumstances, it does not appear necessary to limit the connections to only 6 lots.

We are told that the criteria of the Department of Ecology are based on empirical data of actual water consumption. We hope that the agencies' different approaches to the volume calculations can be reconciled. We are optimistic that we can arrive at a mutually satisfactory resolution of this situation once we meet. I shall call you in a few days so we can set a meeting date to resolve this issue.

We appreciate your efforts regarding this matter.

Sincerely,

**George A. Hartman**  
Pulali Point Partner

cc.: Sheri Carroll  
Enclosures: Letter from Sheri Carroll  
Literature



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

P.O. Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

August 4, 1997

George Hartman  
3215 E. Mercer  
Seattle, WA 98112

Dear Mr. Hartman:

I am writing this letter in regard to your application for ground water rights No. G2-28893. (Pulali Point Partners)

It is my understanding the seven homes that will be served by the well are seasonal residences and one will be all year round.

For ground water withdrawals, Washington Water Law requires all water users to obtain a water right permit from Ecology before constructing a well or withdrawing any ground water from a well. However, the law does allow a water right Permit Exemption which states that:

"No water right permit is required for the withdrawal of up to 5,000 gallons of water per day from a well when the water is being used for single or group domestic water supply and irrigation of no more than 1/2 acre of lawn or non-commercial garden."

The Department of Ecology bases annual quantities allotted for recreational residential services at 225 gallons per day or less, 1/4 acre foot per year. The single year round residence will be allotted 450 gallons per day.

It appears your request for water rights is exempt under the Washington water law. You will need to contact the Jefferson County Health Department as your system is a public water system. Please contact this office if you do not want to proceed with the processing of your application. If you have any questions, please call me in Olympia at (360) 407-0240.

Sincerely,

Sheri Carroll  
Water Resources

SC:th





July 24, 1997

**Ms. Sheri Carol**  
Department of Ecology  
Olympia, WA 98504-0002

Dear Ms. Carol:

Thank you for making it possible to meet with you in the matter of Pulali Partners Water Rights for which we applied in 1993. The purpose of the meeting is to obtain water rights so that we can serve the eight individual lots.

The State Health Department Jefferson PUD advised us that we have authority to connect our water system to only six lots. This is because we will then serve less than the 5,000 gallon capacity that is based on a 800 gallon/house criteria. Thus we would be exempt from the State Water Rights regulations. The Jefferson county PUD was not willing to reduce the 800 gallon/house criterion.

The Jefferson County Permit Center gave us a one time only extension for the Pulali Point Partners Large Lot Subdivision where the Summary approval will expire November 18, 1997. We will need to submit our final plat prior to this date, showing that water is available to all eight lots. Otherwise we have to resort to a lengthy new application process.

We are enclosing our well data which shows that the 155 foot deep well produces 29 gpm or 41,000 gpd. Only 4.5 gpm or 6,400 gpd is required to serve the 8 lots. We have 35,000 gallons per day excess above the requirement.

It was suggested that we drill a new well directly next to the existing well, so that we in effect have two water systems, each below the 5,000 gpd maximum. This means that we would take water from the same aquifer, 155 feet deep. From a practical point of view both wells can be considered as coming from the same source of water. We would have fulfilled the letter of the law but would have violated the spirit of the law.

Our appeal to you is to grant us the water rights outright. It would save us considerable expense and a great deal of trouble. One well will effectively function in the same way as two wells would.





# JEFFERSON COUNTY PERMIT CENTER

621 Sheridan Street, Port Townsend, WA 98368

March 31, 1997

WALKER WILLIAM  
11000 WHITCOMB PLACE  
WOODWAY WA 98020

Re: LLA92-0002 PULALI POINT PARTNERS LARGE LOT SUBDIVISION

Dear WALKER WILLIAM

A one time only ~~extension~~ extension has been approved for the above referenced subdivision. Summary approval on the above ~~plat~~ plat will now expire November 18, 1997. You will need to submit your final plat prior to this date.

5.209 Renewal Procedure: A ~~plat~~ plat upon which preliminary approval has expired shall be resubmitted and processed as a new application.

Sincerely,

  
\_\_\_\_\_  
Staff

Building  
Building Permits  
Inspections

Environmental Health  
Septic Permits  
Water Review

Development Review  
Subdivision, Zoning  
& Shoreline Permits

Public Works  
Road Approach  
Permits & Addresses

(360) 379-4450

FAX: (360) 379-4451

March 12, 1997

Roger A Myklebust  
9075 40th Pl. N.E.  
Bellevue, Wa. 98004

Mr. Jerry Smith  
Permit Center  
621 Sheridan St.  
Jefferson County  
Pt. Townsend, Wa. 98368

Re: Pulali Point Large Lot Subdivision  
Project No. 59409

Dear Mr. Smith:

We are writing to request an extension of the Planning Permit issued for the Pulali Point Large Lot Subdivision on November 18, 1993. Specifically, we request an extension through November 18, 1997.

We have completed all construction and the majority of the non-construction requirements of the original approval. The following is a summary of the significant efforts and related dates undertaken in response to the Approval:

1. Original Application/Plans. The Large Lot Subdivision Summary Approval was issued on November 18, 1993.
2. Road Construction. Construction commenced in June 1996. The contractor was Mr. Gary Janish. Preliminary approval of the road occurred in November 1996. Final approval by Mr. Bomi Khambatta of the Public Works Department was received in January, 1997.
3. Septic System. As initially approved the plans provided for a common septic system. In consultation with the County, the approach was modified to utilize individual drainfields for each of the proposed eight lots. The individual Septic Permit Applications were submitted in July 1996. We are advised that approvals will be issued by the Jefferson County Health Department when the subdivision is finished. The designer was Ms. Janet Welch of Septic Sense.
4. Electrical. The electrical lines were installed by Mason County PUD in August 1996.

pul2.prm

1

5. Telephone. Telephone lines were installed by the telephone company, Sprint, in August 1996. Final connection will occur within the next 60 days.

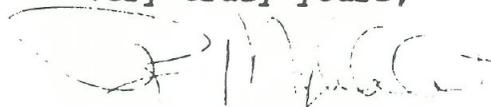
6. Water. The water system was approved on March 23, 1995 by the Washington Department of Health. Construction of the system was commenced in June 1996 by Mr. Gary Janish, in conjunction with Black Point Electric. Mr. Janish had overall responsibility and installed the underground lines in August 1996. Black Point Electric installed the pump, tanks and complete electrical system. The Certification that the system has been completed will be submitted to the Washington State Department of Health.

7. Turnaround. A turnaround was constructed at the end of the common area road. Final approval of the road and turnaround was obtained from the Jefferson County Fire Protection District #4 in November 1996 and subsequently by Mr. Khambatta.

The final plat survey, Record of Survey Map, showing as-built conditions is being prepared and will be submitted in the next several weeks. In addition, the owners have prepared a road maintenance agreement and are naming the road. The AFN of the private road easement establishing access to the property is recorded under number 332617 in vol 312, page 512-525.

We appreciate your consideration of the request and will be happy to address any questions you may have regarding the above items or other aspects of the subdivision. Please address questions to me at 206-654-2220 or the above address or to Mr. George Hartman at 206-322-3445.

Very truly yours,



Roger A. Myklebust



STATE OF WASHINGTON

## DEPARTMENT OF HEALTH

SOUTHWEST DRINKING WATER OPERATIONS

2411 Pacific Ave. • P.O. Box 47823 • Olympia, Washington 98504-7823 • (360) 664-0768

January 3, 1996

The William Walker Association  
1100 Whitcomb Place  
Woodway, Washington 98020

Subject: Pulali Point Water System, Jefferson  
County; New Group B System, 6  
Connections; DOH Project #059409

Gentlemen:

Our records indicate that approval for the above system was granted on March 23, 1995 and that as of this date we have not received a construction report.

State regulation WAC 246-290-040 requires that within 60 days following the completion of and prior to the use of any project or portions thereof, for which plans and specifications have received approval of the Department, certification that the project has been installed in accordance with the approved plans and specifications shall be signed by a professional engineer and returned to this office.

Therefore, would you please indicate the project's current status and return this form to the address below.

1. Construction not started \_\_\_\_\_  
Anticipated date to begin construction 0-7-96
2. Construction in progress \_\_\_\_\_  
Expected completion date \_\_\_\_\_
3. Project completed and certification will be returned on \_\_\_\_\_
4. Additional comments:

Sincerely,

Karl W. Johnson, P.E.  
WSDOH Regional Engineer  
Southwest Drinking Water Operations  
Phone: (360) 753-2452

KWJ:clp  
Enclosure

Signed:

  
Water System Representative

cc: Jefferson County Health Department  
Otto Burden, P.E.

CONSTRUCTION REPORT FOR PUBLIC WATER SYSTEM PROJECTS

Effective September 9, 1983 the following Regulation applies: WAC 246-290-040(2) - A construction report shall be submitted to and accepted by the department within sixty days of completion and prior to use of any project for which plans and specifications have been approved by the department for projects designed by a professional engineer. The construction report must be signed by a professional engineer. The report shall state in the opinion of the signee whether the project has been constructed in accordance with approved plans and specifications and the installation, testing and disinfection of the system were carried out in accordance with department regulations.

- (a) If a project is being completed in stage construction, attach a map and description of portion of project being certified as completed as approved on date given below.
- (b) As future portions of staged construction projects are completed, each must be certified as required by WAC 246-290-040(2).
- (c) Additional certification forms are available upon request from DOH offices listed below.

The William Walker Association  
 Pulali Point Water System  
 Name of Water System

---

1100 Whitcomb Place  
 Mailing Address

---

Woodway, WA 98020  
 City State Zip

DOH Water System No.

Referendum No. (if any)

Date Plans and Specifications Approved by Department of Health

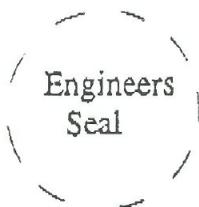
March 23, 1995

PROJECT NAME AND DESCRIPTIVE TITLE:

Pulali Point Water System, Jefferson County;  
 New Group B System, 6 Connections; DOH  
 Project #059409

Date Project or Portions Thereof Completed

The undersigned engineer or his authorized agent has inspected the above-described project, which as to layout, size and type of pipe, valves and materials, reservoir and other designed physical facilities has been constructed in accordance with the plans and specifications approved by the Secretary, Department of Health, and in the opinion of the engineer, the installation, testing and disinfection of the system was carried out in accordance with the specifications approved by the Secretary for the project.



\_\_\_\_\_  
 Engineer

\_\_\_\_\_  
 Date

Please return completed form to DOH office checked below.

N.W. Drinking Water  
 Environmental Health  
 217 Pine, Suite 220  
 Seattle, WA 98101

S.W. Drinking Water  
 Environmental Health  
 P.O. Box 47823  
 Olympia, WA 98504-7823

Eastern Drinking Water  
 Environmental Health  
 West 924 Sinto  
 Spokane, WA 99201

Fee 100.00  
 Receipt # 13752  
 7-22-93

WELL SITE INSPECTION CHECK LIST

Project: Pulali Point Subdivision Received: July 22, 1993  
 Location: Pulali Point, Jefferson County Inspected: August 5, 1993  
Section 19, Township 26N, Range 1W By: Celia Kaufman  
 Owner: Pulali Point Partners Name of any representative or owner present during your inspection:  
11000 Whitcomb Place  
Woodway, WA 98020 Otto Burden, Olympic Eng  
 Submitted by: Olympic Engineering, Otto Burden  
Engineer or Land Surveyor

In answering the following, the term well site means all the area within one hundred feet of the well; the term well means the spot where the well is to be drilled or is already drilled. Yes answer means agreement with the statement or question.

	<u>Yes</u>	<u>No</u>
Map provided was accurate, based on your observations at the well site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Slope of ground within well site and beyond is not such as to endanger well from possible run-off contamination?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
No evidence of existing sources of contamination within 100 feet of the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If public or private roads pass within 100 feet of well, are they now ditched or otherwise drained in a manner which safely conducts surface run-off away from well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If well is an existing well:		
A. Does ground slope away from immediate vicinity of well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. Is well adequately sealed and covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Is visible construction in sound condition? (Concrete, piping, electrical, floor slab, building, etc.)	<input type="checkbox"/>	<u>N/A at this time</u>
D. Is there a substantial concrete slab poured around the well casing?	<input checked="" type="checkbox"/>	<u>N/A at this time</u>
E. Does casing extend at least 12-inches above slab?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
In your opinion, is the overall well site satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

# new and/or expanding Class 4 Water System Workbook

## CHECK LIST NEW, AND/OR EXPANDING CLASS 4 WATER SYSTEMS

- Water Right Permit .....
- Vicinity Sketch .....
- Layout Sketch .....
- Source Location & Protection Sketch .....
- Source Site Inspection .....
- Control Area including Restrictive Covenant.....
- Well Log .....
- Pump Test .....
- Bacteriological Analysis Results .....
- Chemical Analyses Results .....
- Pressure Tank Standards .....
- Equipment Specifications .....

STATE OF WASHINGTON  
DEPARTMENT OF SOCIAL & HEALTH SERVICES



Health Services Division  
Water Supply and Waste Section  
1D-11  
Olympia, WA 98504





## NEW SYSTEMS

## Section 2. Source Development—to be completed for each source. (Appendix 1)

## A. General Source Data

## I. \*Wells

- a. Well Logs: Existing Well....., New Well...X.....  
Attached....., Not Available.....
- b. If not available, contact your local health agency.
- c. Well construction: .....X.....Satisfactory .....Unsatisfactory (Appendix 1)
- d. If construction is not to standards, list deviations and attach.

## II. \*Springs (Appendix 4) (N/A for this project)

- a. Recharge Area: Defined....., Protected.....
- b. Waterbearing Strata: Protected....., Unprotected.....
- c. Spring collection according to Appendix 4, figure ....., or if Appendix 4 is not applicable, sketch actual configuration and attach.

## B. \*Source Collection Site

- a. Site Inspection: ... X ... Satisfactory .....Unsatisfactory (Appendix 2—attach report)
- b. Protective covenants/easements: .....X.....Satisfactory .....Unsatisfactory.....Unobtainable (Appendix 3)
- c. For 100 ft. radius ... X ... , 200 ft. radius ....., Other ..... (Define on attached sheet)  
When clearly justified these requirements may be reduced or increased by the health officer and lesser or more stringent requirements may be imposed.
- d. Recorded ... X.....Yes, ..... No, Number.....  
If the protective covenants/easements are "unobtainable", contact your local health agency regarding a request for variance. "Unobtainable" may be defined by the local health department if a reasonable attempt has been made by the purveyor to secure the restrictive covenants and/or easements.

## C. Source Capacity

- a. Number of connections ... 8 ... , Maximum required peak flow ...34.7... gpm (Table 1, page 7)
- b. Required Daily Production: ...4.5...gpm 6,400...gpd (Table 1, page 7)
- c. Source capacity (by pump test, bailer test is unacceptable) . 29..... gpm41,000. gpd  
If some other technique is used, include details on an attached sheet.
- d. Proposed Pump Rate: ...25... gpm 36,000.gpd  
If the proposed pump rate is less than the maximum required peak flow, refer to Section 4, page 5, for the required storage.

\*If the response to any portion of these subsections is "unsatisfactory", "undefined", or "unprotected", please contact your local health agency.

**NEW SYSTEMS**

**NEW SYSTEMS—Cont.**

**D. Pumping Equipment (Appendix 7)**

**i. Source Pump**

a. Pump rate .....25.....gpm (Must be no less than Required Daily Production)

Note: Section 6, page 6, "Distribution System Sizing and Headloss" must be completed before filling out the following form.

**b. Required Pump Head (Appendix 7)**

	WELL	SPRING
Static Head		
(a) Well lift	.....146.5.....ft.	.....ft.
(b) System Elev. Diff.	.....10.0.....ft.	.....ft.
Headlosses	.....8.0.....ft.	.....ft.
Residual (30 psi)	.....70.0.....ft.	.....ft.
<b>TOTAL</b>	<b>235</b> .....ft.	.....ft.
Available Pressure Head	.....N/A.....ft.	.....ft.

Also, use this method if the source pump delivers to a storage tank where repumping is necessary; then a residual of 0 or close to 0 may be considered in pump sizing.

For springs, if the available pressure head exceeds the required pump head, then no pump will be required.

**c. Required pump:**

Total required Pump Head .....235.....ft.

Pump Rate .....25.....gpm

Select pump from pump catalog for .....235.....head and pump rate of .....25.....gpm.

Place check valve on pump

**d. Selected Pump. (attach pump curve and specifications)**

Type .....Submersible....., Manufacturer.....Grundfos..... Model No.....SP-4-19.....

RPM.....3450....., Horsepower.....2.0.....

Pump rate .....25.....gpm, at a head of .....240.....ft. giving .....58.....% efficiency (when available)  
(62% is maximum)

**e. Depth of pump setting.....155.....ft.....below top of casing**

In situations where repumping from a storage tank is necessary, a booster pump must be sized as below.

**ii. Booster Pump**

N/A

a. Pump rate .....gpm

**b. Required pump head**

	WELL	SPRING
System Elev. Diff.	.....ft.	.....ft.
Headlosses	.....ft.	.....ft.
Residual (30 psi)	.....ft.	.....ft.
<b>TOTAL</b>	.....ft.	N/A .....ft.

**NEW SYSTEMS**

**Section 3. Water Quality Data**

- a. Water Chemistry:  Satisfactory,  Unsatisfactory  
Attach copies of analysis reports
- b. Bacteriological:  Satisfactory,  Unsatisfactory  
Attach copies of analysis reports

Additional analysis may be required at the discretion of the local health agency.

Water quality requirements are discussed in detail on page 3. ("Class 4 Water System Design—Requirements, Procedures and Examples")

**Section 4. Storage**

- a. Required Peak Flow 34.7 gpm = X Section 2(C) page 2
- b. Pump Rate 25 gpm = Y (from Sec. 2 (D), (i), page 3)  
If the pump rate is greater than the required peak flow, no storage is needed.
- c. If the pump rate is less than the required peak flow, the needed storage is:  

$$*20 \left( \begin{matrix} X \\ 34.7 \end{matrix} - \begin{matrix} Y \\ 25 \end{matrix} \right)$$
 20 min. (Required Peak Flow — Pump Rate)  

$$20 \left( \begin{matrix} 34.7 \\ 9.7 \end{matrix} \right) = 194 \text{ gallons}$$

**Section 5. Pressure Tank Sizing**

- a. Pressure tank will be ASME  equivalent (Attach specifications)
- b. ASME approved relief valve is installed. Yes  No
- c. Pressure tank is for: Pump protection , storage , both
- d. Working storage:  
 (A) Pump rate 25 gpm. \*2.5 x pump rate = 62.5 gallons  
 (B) Storage requirement (from Section 4) = 194 gallons  
 When tank is for pump protection, use A above and refer to Table 2, Page 7.  
 When tank is for storage or both, use larger of A or B above and refer to Table 2, Page 7.
- e. Pressure tank is  horizontal  vertical
- f. Selected tank size 422 gal (See Attached Data By Manufacture)
- g. \*\*Selected Pressure Range 44.7-70
- h. Is air make-up by  sniffer valve,  compressor,  other (specify)

i.

Storage Type	Capacity (gallons)		Repumped	Gravity	Sketch configuration below. Show materials, dimensions, plumbing.
	New	Old			
Elevated Tank					(See Attached)
Ground Level					
Pressure Tank s	422	-			
Other (define)					
.....					
.....					

\*\*Design Standards for Public Water Supplies"

\*\*Minimum Pressure Tank Setting = System elev. diff. + Friction loss + 70'

**NEW SYSTEMS**

c. Select pump from catalog for .....head and well pump rate of.....gpm.

d. Selected Pump: (attach pump curve and specifications)

Type....., Manufacturer....., Model No.....

RPM....., Horsepower.....

Pump rate ..... gpm, at a head of .....ft., giving .....% efficiency (if available).

**E. Pumphouse (Appendix 5)**

a. Pumphouse will conform to Appendix 5, figure.....

b. If Appendix 5 does not apply, sketch pumphouse layout and attach. Attached .....X.....yes .....no

c. Required Pumphouse Components (Appendix 5)

	Satisfactory	Unsatisfactory
Heating		
*Wiring		
Well Casing	X	
Sanitary Well Seal	X	
Pressure Gauge	X	
Casing Vent	X	

Floor Drain			
Pump Mounting			N/A
Flooring		X	
Security		X	
Chlorine Injection Point			N/A
Inspection Port			N/A
Raw Water Sampling Tap		X	

\*Approval by building inspector.

d. Optional items included in pumphouse:

	Included	Satisfactory	Unsatisfactory
Pressure Tank		X	
Pump to Waste			
System Alarms			
Sampling Tap		X	

	Included	Satisfactory	Unsatisfactory
110 outlet wired with pump		X	
M/O Equipment			
Meter			
Airlines		X	

A definition of satisfactory and unsatisfactory for all pumphouse components is included in Appendix 5.



RECEIVED

'97 JUL -3 10:47

George A. Hartman, Architect

3215 E Mercer Seattle WA 98112 - (206) 322-3445 Fax (206) 328-3568

S.W. REGIONAL OFFICE

July 1, 1997

Ms. Sheri Carol  
Department of Ecology  
Olympia, WA 98504-0002

Dear Ms. Carol:

On Tuesday, June 24th I called you and left a message that I wanted to schedule an appointment with you at your convenience. Your recording stated that you would return the call within five calendar days but as of today I have not received a call.

1993

This concerns our application for water rights # 62-28893 that Pulali Point Partners filed for in 1991. While waiting for the water rights we have been working for the last four years on a platting permit that will expire shortly unless we resolve the issue of water rights. We have so far invested a great deal of time and money and it is critical that we resolve this issue within the next month.

Roger Myklebust and I, both Pulali Point Partners, would like to schedule a meeting with you or with anyone who has the authority to make a decision for a week of July 21st or 28th. We have been waiting too long for a decision and must act now in order not to endanger the whole project. I would certainly appreciate your personal help in this matter. I shall be gone on a business trip duringr the next two weeks, but you can write to me to the above address, or you can contact Roger Myklebust directly and set a date for our meeting. His phone is (206) 464-4224 and his address is: Ryan Swanson & Cleveland, Attorneys, 1201 Third Avenue, suite 3400, Seattle, WA 98101-3034.

I am looking forward to hearing from you.

Sincerely,

George A. Hartman

cc.: Roger Myklebust

GAH: vr

Appointment set for  
July 24, 1997

7/13/97  
SE

Mr. Hartman's  
message was cut  
off at the phone  
no - - Fee was  
not under Pulali  
Point - couldn't  
find

CHRISTINE O. GREGOIRE  
Director



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

7272 Cleanwater Lane, 1U-11 • Olympia, Washington 98504-6811 • (206) 753-2353

October 19, 1993

Otto Burden  
Jay Sacks  
9481 Bay Shore Drive Ste 103A  
Silverdale, Washington 98383-9113

Dear Mr. Burden:

Re: Ground Water Application No. G 2-28893

We acknowledge receipt of your affidavit of publication of notice in connection with the above-numbered application.

The water codes require that no action be taken toward issuance of a permit earlier than thirty (30) days after the last date of publication. This period of time is allowed for filing any protests or objections.

Sincerely,

A handwritten signature in cursive script that reads "Sheri Fox".

Sheri Fox  
Water Resources

SF:th(12A)

Affidavit of Publication

STATE OF WASHINGTON)
SS
COUNTY OF JEFFERSON)

FRANK W. GARRED, being sworn, says he is the publisher of the Port Townsend Jefferson County Leader, a weekly newspaper which has been established, published in the English language and circulated continuously as a weekly newspaper in the town of Port Townsend in said County and State, and for general circulation in said county for more than six (6) months prior to the date of the first publication of the Notice hereto attached, and that the said Port Townsend Jefferson County Leader was on the 27th day of June 1941 approved as a legal newspaper by the Superior Court of said Jefferson County and that annexed is a true copy of the

Notice of application to appropriate public waters

Jack Sacks
Application #G2-28893

as it appeared in the regular and entire issue of said paper itself not in a supplement thereof for a period of two consecutive weeks, beginning on the 15th day of September, 1993, and ending on the 22nd day of September, 1993, and that said newspaper was regularly distributed to its subscribers during all of this period. That the full amount of \$62.05 has been paid in full, at the rate of \$7.30 (\$6.70 for legal notices received electronically, modem or disk) per column inch for each insertion.

Frank W. Garred
Publisher

Subscribed and sworn to before me this 22nd day of September, 1993.

Elizabeth R. Drewell
Notary Public in and for the State of Washington,
residing at Port Hadlock.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
NOTICE OF APPLICATION TO
APPROPRIATE PUBLIC WATERS
TAKE NOTICE:
That Jay Sacks of Woodway, Wash-
ington on July 7, 1993 under Applica-
tion No. G2-28893 filed for permit to
appropriate public waters, subject to
existing rights, from a well in the amount
of 34.7 gallons per minute as needed
year round each year, for multiple do-
mestic supply. The source of the pro-
posed appropriation is located within
SE 1/4 SW 1/4 of Section 18, Town-
ship 26 N., Range 1 W., W.M., in
Jefferson County.
Protests or objections to approval
of this application must include a de-
tailed statement of the basis for objec-
tions: protests must be accompanied
by a two dollar (\$2.00) recording fee
(check or money order only, cash will
not be accepted) and filed with the
Department of Ecology, at the address
shown below, within thirty (30) days
from: September 22, 1993.
DEPARTMENT OF ECOLOGY
WATER RESOURCES
P.O. BOX 47775
OLYMPIA, WA 98504-7775
743 9-22

affidavit OK
10/18/93
SF

CHRISTINE O. GREGOIRE  
Director



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

7272 Cleanwater Lane, LU-11 • Olympia, Washington 98504-6811 • (206) 753-2353

September 3, 1993

Otto Burden  
9481 Bay Shore Drive Ste 103A  
Silverdale, Washington 98383-9113

Dear Mr. Burden:

Re: Ground Water Application No. G 2-28893 for Jay Sacks

Your application for the appropriation of water has been assigned the above referenced number. Please refer to this number in future correspondence.

Enclosed is a notice of your application which must be published once a week for two consecutive weeks in a qualified legal newspaper of general circulation in the County or Counties in which the storage, diversion, and use is to be made and in other newspapers as directed. A list of these newspapers in your county is enclosed. The applicant is responsible for the payment of the publication. Please read the notice carefully to make sure it is correct. Should you find an error, please return the notice to our office for correction.

You should mail or deliver the enclosed notice to a newspaper regarding publication as soon as possible. When you receive the affidavit of publication with the news clipping from the newspaper, please forward the original to this office promptly. Further processing of the application will not be made until the affidavit is returned.

Since your application is for service of more than one residence, it is considered a public water supply. Public water supply systems are required to be approved by either the Local Health Department or the State Department of Health, depending upon system size. If you have not already done so, I suggest that you contact your Local Health Department or DOH, Drinking Water Section, Olympia, Washington, for further information.

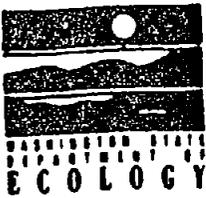
A site investigation will be made by this office before we issue a permit decision. In light of our water right backlog, we estimate it will be about 18 months after receipt of your application before we are able to conduct the site investigation.

Sincerely,

Sheri Fox

Water Resources

SF:th Enclosures



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**NOTICE OF APPLICATION TO APPROPRIATE PUBLIC WATERS**

**TAKE NOTICE:**

That Jay Sacks  
of Woodway, Washington on July 7, 1993 under  
Application No. G2-28893 filed for permit to appropriate public waters, subject to existing rights,  
from a well  
in the amount of 34.7 gallons per minute as needed year round  
each year, for multiple domestic supply

The source of the proposed appropriation is located within SE 1/4 SW 1/4

of Section 18, Township 26 N., Range 1W W.M., in Jefferson County.

Protests or objections to approval of this application must include a detailed statement of the basis for objections; protests must be accompanied by a two dollar (\$2.00) recording fee (check of money order only, cash will not be excepted) and filed with the Department of Ecology, at the address shown below, within thirty (30) days from:

(Last date of publication to be entered above by publisher)

DEPT OF ECOLOGY  
WATER RESOURCES  
PO BOX 47775  
OLYMPIA WASHINGTON 98504-7775

NOTICE



Jan Cunningham  
R-32775  
PARKER ESTATE/TO COME

Page 3

Legal Description continued  
Parcel B continued

Beginning at the Southeast corner of said Government Lot 3 in Section 18, of said Township and Range which is also a point on the North line of said Section 19;  
thence South 54 degrees 30' West, 258 feet;  
thence South 5 degrees 30' East, to the Southeasterly boundary of said Lot 1;  
thence Northeasterly, along the boundary of said Lot 1, to the North line of said Section 19;  
thence West, along said North line, to the Point of Beginning.

All situate in the County of Jefferson, State of Washington.

Parcel C:

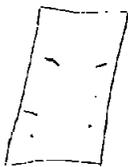
All tidelands of the second class situate in front of, adjacent to, or abutting upon that part of Lot 1, Section 19, Township 26 North, Range 1 West, W.M., lying West of a line running South, across said Lot 1, from a point on the North line thereof which is 896 feet West of the Southeast corner of Lot 3 of adjoining Section 18;

AND;

All tidelands of the second class situate in front of, adjacent to or abutting upon that part of Lot 1, Section 19, Township 26 North, Range 1 West, W.M., lying East of a line running South, across said Lot 1, from a point of the North line thereof which is 896 feet West of the Southeast corner of Lot 3 of adjoining Section 18, said Township and Range.

All situate in the County of Jefferson, State of Washington.

End of legal description



Perkins Coie  
R-32775  
PARKER ESTATE/TO COME

Page 2

LEGAL DESCRIPTION:

Parcel A:

Government Lot 3, Section 18, Township 26 North, Range 1 West, W.M., in Jefferson County, Washington;

EXCEPT the Right of way for Pulali Point Road;

ALSO EXCEPTING THEREFROM those portions described as follows:

Five acres in the Northwest corner of said Government Lot 3, with a water frontage of two acres and described in Jefferson County Assessor's Plat and Description Book as Tax No. 1, in said Section 18;

ALSO EXCEPT;

That portion of said Government Lot 3, described as follows:

Beginning at the Southwest corner of the above described Tax 1 in said Section 18, and running thence East along the South line of said Tax 1 and its extension 550 feet;  
thence Southerly parallel to the West line of said Lot 3, 235 feet;  
thence West, parallel to the South line of said Tax 1, 550 feet;  
thence Northerly, along the West line of said Lot 3, 235 feet to the point of beginning.

All situate in the County of Jefferson, State of Washington.

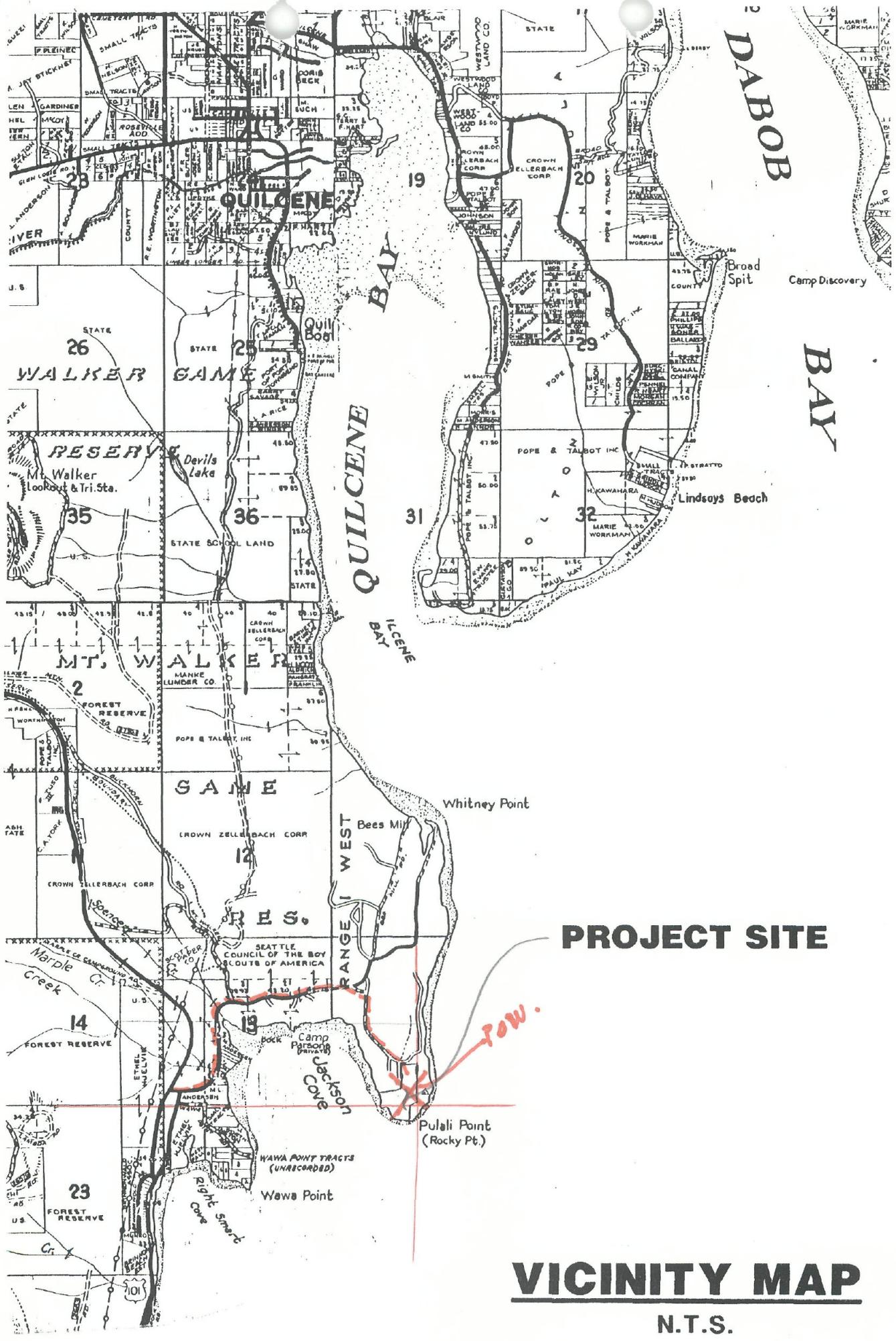
Parcel B:

Government Lot 1, in Section 19, Township 26 North, Range 1 West, W.M., in Jefferson County, Washington;

EXCEPTING THEREFROM that portion described as follows:

That portion of Government Lot 1 in Section 19, Township 26 North, Range 1 West, W.M., described as follows:

Parcel B continued



**PROJECT SITE**

**VICINITY MAP**

N.T.S.

# Olympic Engineering

13700 Rocky Ridge Rd NW  
 Silverdale, WA. 98383 (206) 779-8080  
 (253)

To: Department of Ecology

## Letter of Transmittal

DATE	7/6/93	JOB NO.	92-303
ATTENTION			
RE:	Putali Point		

RECEIVED  
 JUL 07 1993  
 DEPT. OF ECOLOGY

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:

- Original Drawings
- Copy of Letter
- Specifications
- Shop Drawings
- Change Order
- Prints
- Plans
- Calculations
- \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1			Water Right Application

THESE ARE TRANSMITTED as checked below:

- For Approval
- For your use
- As Requested
- For review and comment
- FOR BIDS DUE \_\_\_\_\_ 19\_\_ PRINTS RETURNED AFTER LOAN TO US
- Approved as submitted
- Approved as noted
- Returned for corrections
- \_\_\_\_\_
- Resubmit \_\_\_\_ copies for approval
- Submit \_\_\_\_ copies for distribution
- Return \_\_\_\_ corrected prints

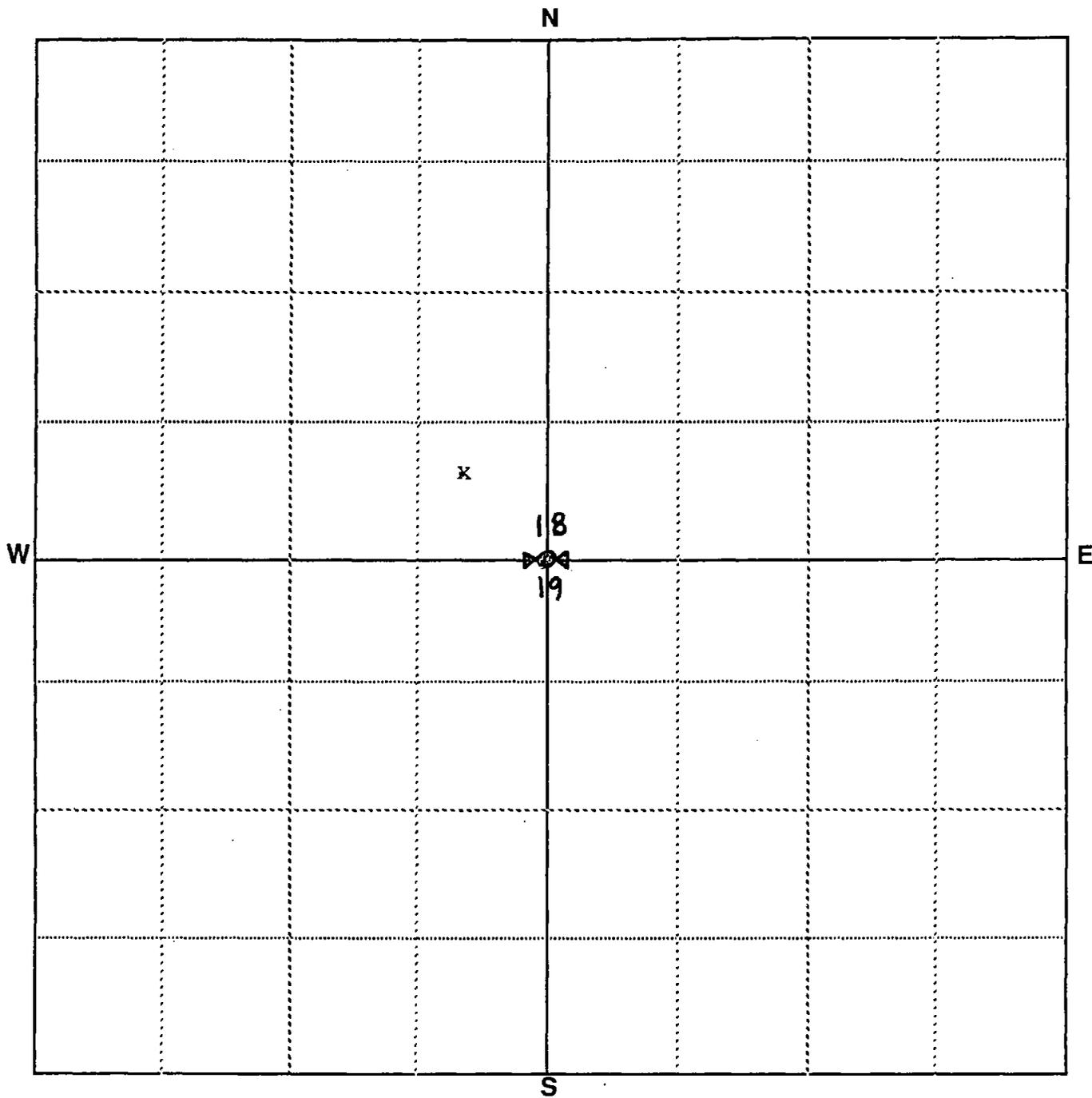
COMMENTS \_\_\_\_\_  
 \_\_\_\_\_  
 Please direct all inquiries &  
 correspondance to above address.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

COPY TO: \_\_\_\_\_

SIGNED: Thanks,  
 Otto L Borden

SECTION MAP

Sec. 18/19 Twp. 26 N. R. 1 west



Scale: 1 inch = 800 feet (each small square = 10 acres)

Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells or works within a quarter of a mile. Indicate traveling directions from nearest town in space below.

See attached vicinity map. Call (206) 779-8080 for further directions if necessary.

Detach here

Fold along sc